1970 World Radio-TV Handbook

A COMPLETE DIRECTORY
OF INTERNATIONAL
RADIO AND TELEVISION

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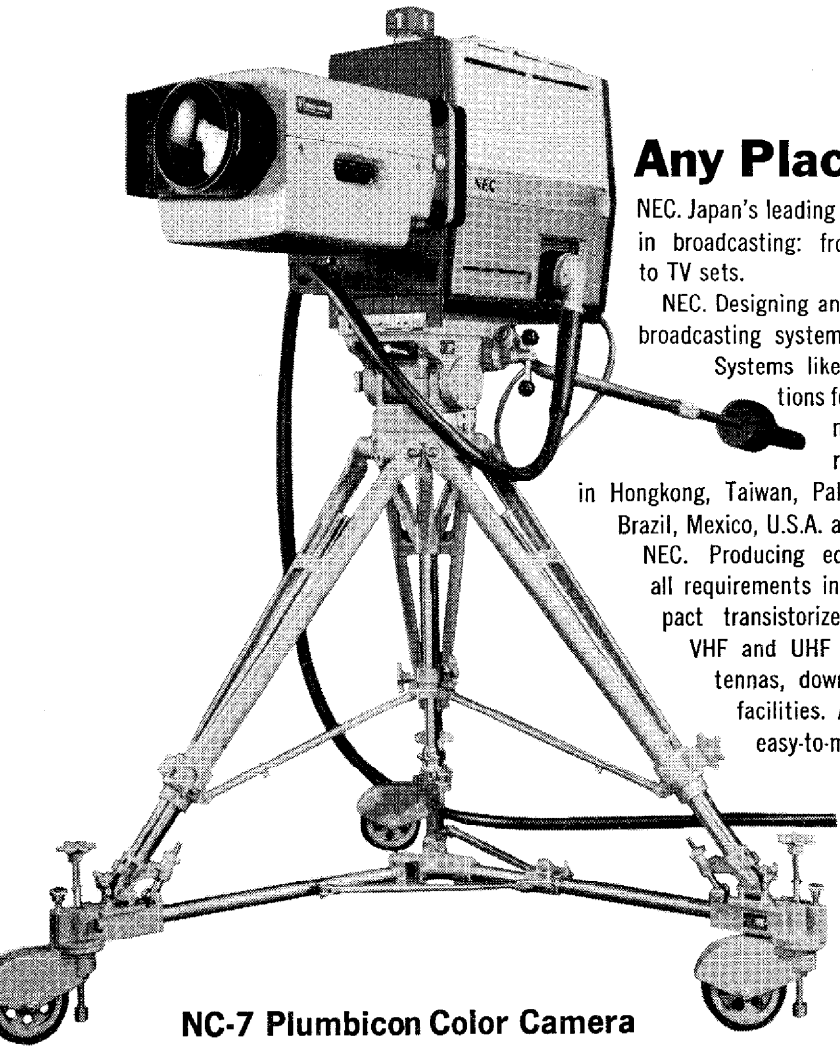

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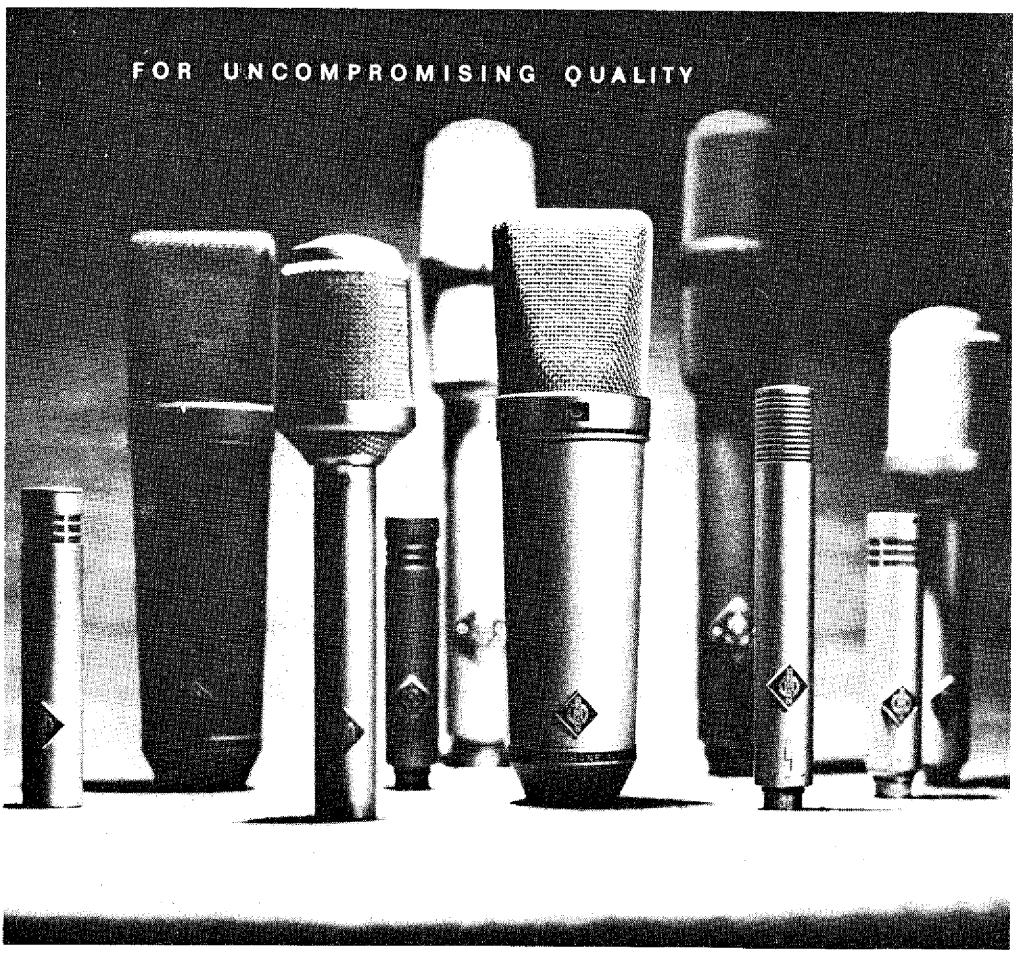

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PEACE AND PROGRESS

Radio Station "Peace and Progress" is sponsored by Soviet public organizations. It broadcasts in English, French, Spanish, Portuguese, German, Hebrew, Yiddish, Guarani, Chinese and Mongolian. Programmes are beamed daily to Asia, Australia, Africa, the Near and Middle East, Latin America and Europe.

It is the aim of Radio Station "Peace and Progress" to acquaint its listeners with Soviet public opinion on vital questions, with the point of view of the Soviet people on international events, to inform them of the current events taking place in various countries and to cover the activities of international organizations.

Our address:

Radio Station "Preace and Progress"
Moscow, U.S.S.R.

We establish contacts and sign contracts with foreign broadcasting stations and information agencies to provide them with materials on political questions as well as questions dealing with the public life of our country.

WORLD RADIO TV HANDBOOK

RADIO • 1970 • TELEVISION

24th Edition

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Editor: J. M. Frost

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For the promotion of a better understanding between the peoples of the world.

Recommended by: United Nations — UNESCO — European Broadcasting Union — International Radio and Television Organization (O.I.R.T.), Prague — International Broadcasters' Society (IBS) — **Australia:** Australian Broadcasting Commission (incl. Radio Australia) — **Austria:** Österreichischer Rundfunk — **Belgium:** The Belgian National Broadcasting Service — **Burma:** Burma Broadcasting Service — **Canada:** Canadian Broadcasting Corp. — **Cyprus:** Cyprus Broadcasting Corp. — **Czechoslovakia:** Radio Prague — **Denmark:** Radio Denmark — **Eire:** Radio Eireann — **Finland:** The Finnish Broadcasting Co. — **France:** R.diff. Télévision Française — **Germany:** Deutsche Welle - Bayerischer Rundfunk - Hessischer Rundfunk - Nord- u. Westdeutscher Rundfunk - Süddeutscher Rundfunk - Südwestfunk - Radio Saarbrücken — **German Dem. Rep:** Staatliches Rundfunkkomitee - Radio DDR - Deutschlandsender - Berliner Rundfunk - Berliner Welle - Radio Berlin International — **Ghana:** Ghana Broadcasting Corp. — **Great Britain:** British Broadcasting Corporation — **Greece:** National Broadcasting Institute — **Holland:** Radio Nederland Wereldomroep — **Hungary:** Hungarian Broadcasting Sce. — **India:** All India Radio — **Indonesia:** Radio Republik Indonesia — **Iran:** Radio Tehran — **Israel:** Israel Broadcasting Service — **Italy:** RAI - Radiotelevisione Italiana — **Japan:** NHK - Radio Japan — **Malaysia:** Radio Malaysia — **New Zealand:** New Zealand Broadcasting Corporation — **Nigeria:** Nigerian Broadcasting Corp. — **Norway:** Norsk Rikskringkasting — **Pakistan:** Radio Pakistan — **Poland:** Polskie Radio i Telewizja — **Portugal:** Radio Portugal — **Rumania:** Radio Bucharest — **Saudi Arabia:** Saudi Arabia Broadc. — **Spain:** Radio Nacional de España - Sociedad Española de Radiodiffusion - Red de Emisoras del Movimiento — **Sweden:** Swedish Broadcasting Corp.— **Switzerland:** Swiss Broadcasting Corp. — **Turkey:** Radio Ankara — **South Africa:** South African Broadcasting Corp. — **USA:** The Voice of America - Radio New York Worldwide (WNYW) — **USSR:** The State Committee for Broadcasting and Television — **Vatican State:** Vatican Radio.

The Editor of the World Radio Television Handbook seeks information from all stations and organisations engaged in broadcasting and/or television and interested in international broadcasting and/or television and publishes the information as communicated to him by the stations or organisations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply this information, or for changes in the times and wavelengths of programmes made after the current edition has gone to press.

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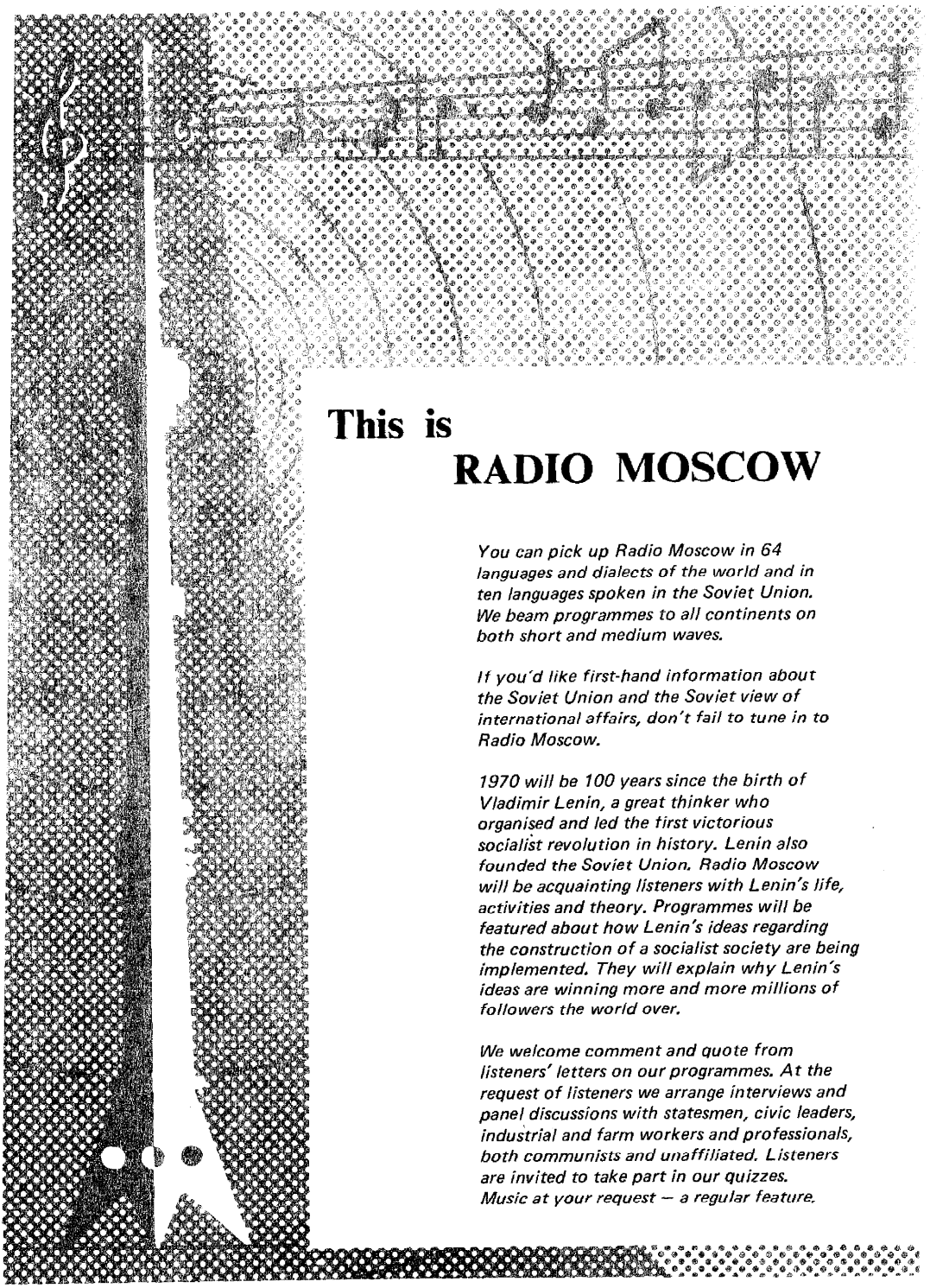


This is RADIO MOSCOW

You can pick up Radio Moscow in 64 languages and dialects of the world and in ten languages spoken in the Soviet Union. We beam programmes to all continents on both short and medium waves.

If you'd like first-hand information about the Soviet Union and the Soviet view of international affairs, don't fail to tune in to Radio Moscow.

1970 will be 100 years since the birth of Vladimir Lenin, a great thinker who organised and led the first victorious socialist revolution in history. Lenin also founded the Soviet Union. Radio Moscow will be acquainting listeners with Lenin's life, activities and theory. Programmes will be featured about how Lenin's ideas regarding the construction of a socialist society are being implemented. They will explain why Lenin's ideas are winning more and more millions of followers the world over.

We welcome comment and quote from listeners' letters on our programmes. At the request of listeners we arrange interviews and panel discussions with statesmen, civic leaders, industrial and farm workers and professionals, both communists and unaffiliated. Listeners are invited to take part in our quizzes. Music at your request — a regular feature.

Tune in to Radio Moscow!

ADDRESS:

RADIO MOSCOW, MOSCOW, US

TABLE OF CONTENTS

	Radio	TV
Afars & Issas	123	287
Afghanistan	147	
Albania	58	277
Algeria	123	287
Andorra	58	
Angola	123	
Argentina	236	306
Ascension Island	124	
Australia	176	293
Austria	59	277
Azores	62	
Bahamas	211	
Bahrain	147	
Barbados	211	304
Belgium	62	277
Bermuda	193	294
Bolivia	239	307
Botswana	124	
Brazil	241	307
Brunei	147	
Bulgaria	63	277
Burma	147	
Burundi	125	
Cambodia	147	289
Cameroon	125	
Canada	193	294
Canary Islands	125	287
Cape Verde Isl.	126	
C. African Rep.	126	
Ceylon	147	
Chad	126	
Chile	249	308
China (P.R. of)	148	289
Colombia	252	308
Comoro Islands	126	
Congo (D.R.)	127	287
Congo (Rep.)	127	287
Cook Islands	184	
Costa Rica	211	304
Cuba	218	304
Cyprus	64	277
Czechoslovakia	64	277
Dahomey	127	
Denmark	65	277
Dominican Rep.	218	304
Ecuador	257	308
Egypt (U.A.R.)	127	287
El Salvador	220	304
Ethiopia	127	287
Falkland Islands	262	
Faroe Islands	66	
Fiji	184	
Finland	66	277
France	68	278
Gabon	128	287
Gambia	128	
Germany (F.R.)	70	278
Germany (D.R.)	78	281
Ghana	128	287
Gilbert & Ellice Islands	184	
Gibraltar	81	281
Great Britain	81	281
Greece	86	282
Greenland	199	
Guadeloupe	221	304
Guam	184	294
Guatemala	221	304
Guiana	263	
Guiana (French)	263	308
Guinea Equat.	129	
Guinea (Port.)	130	
Guinea (Rep.)	130	
Haiti	223	304
Hawaii	184	
Holland	87	282
Honduras (Br.)	223	
Honduras (Rep.)	224	304
Hong Kong	152	289
Hungary	89	282
Iceland	90	282
India	153	289
Indonesia	154	289
Iran	158	289
Iraq	158	289
Ireland	90	282
Israel	159	289
Italy	90	284
Ivory Coast	130	287
Jamaica	225	304
Japan	160	290
Jordan	163	291
Kenya	130	287
Korea (D.P.R.)	163	
Korea (Rep.)	163	291
Kuwait	165	291
Laos	165	
Lebanon	165	
Leeward Islands	225	304
Lesotho	130	
Liberia	130	287
Libya (D.R.)	131	287
Lord Howe Isl.	185	
Luxembourg	92	
Macau	165	
Madeira	131	
Malaysia	165	292
Malagasy Rep.	131	
Malawi	132	
Maldives (Rep.)	166	
Mali	132	
Malta	92	284
Martinique	225	304
Mauritania	132	
Mauritius	132	288
Mexico	225	304
Monaco	92	284
Mongolia	167	292
Morocco	133	288
Mozambique	133	
Muscat & Oman	167	
Nauru (Rep. of)	185	
Nepal	167	
Neth. Antilles	232	305
New Caledonia	185	294
New Hebrides	185	
New Zealand	185	294
Nicaragua	233	305
Niger	134	
Nigeria	134	288
Niue Island	186	
Norfolk Island	186	
Norway	94	284
Pakistan	167	292
Panama	234	306
Papua	186	
Paraguay	263	308
Peru	263	308
Philippines	168	292
Poland	95	284
Portugal	97	285
Puerto Rico	235	306
Qatar	172	
Reunion	135	288
Rhodesia	135	288
Romania	98	285
Rwanda	135	
Ryukyu Islands	172	292
Sabah	172	
Sahara (Spanish)	136	
Samoa (Amer.)	187	294
Samoa (Western)	187	
São Tome	136	
Sarawak	172	
Saudi Arabia	173	292
Senegal	136	288
Seychelles	136	
Sierra Leone	136	288
Singapore	173	292
Solomon Islands	187	
Somali (Rep.)	136	
South Africa	136	
Spain	99	285
St. Helena	140	
St. Pierre & Miquelon	200	296
Southern Yemen	173	292
Sudan	140	288
Surinam	268	309
Swaziland	140	
Sweden	103	285
Switzerland	106	285
Syrian Arab Rep.	173	292
Tahiti	187	294
Taiwan	151	289
Tanzania	140	
Thailand	174	292
Timor	175	
Togo	140	
Tonga	188	
Trinidad & Tobago	235	306
Tristan da Cunha	140	
Trucial States	175	
Trust Terr. of Pacific	188	294
Tunisia	141	289
Turk Islands	235	
Turkey	175	292
Uganda	141	289
United Nations	211	
Upper Volta	141	289
Uruguay	268	309
U.S.A.	200	296
U.S.S.R.	110	286
Vatican State	118	
Venezuela	269	309
Vietnam (D.R.)	176	
Vietnam (Rep.)	176	
Virgin Islands (American)	236	306
Virgin Islands (British)	236	
Windward Islands	236	
Yemen	176	
Yugoslavia	119	286
Zambia	141	289

* * *

Abbreviations 10
Co-operators and Monitors 309
Co-operating DX-Clubs 312
Directory of Advertisers 400
DX Programmes 275
Eurovision in 1969 44
How to use the WRTH 6
International Broadcast Institute 11
International Broadcasting Organizations 18
International Waters 272
Long- and Medium-Wave Station 314-374
Message from the Editor 24
News in English 274
Program Distributors 25
Radio Australia's Darwin Station 46
Radio Broadcasting Reception Conditions 1970 ... 53
Recorded Music Libraries 23
Religious Broadcasting Organizations 20
Satellites and the 70's 40
Set Count by Country 310
Short Wave Station of the World 375-397
Solar Activity, 1970 56
Standard Frequency and Time Signal Stations 37
Table of the Most Suitable Broadcasting Bands 1970 39
25 years later 51
Where to obtain the WRTH 397
Voice of Denmark stops 52
World Radio 58-272
World Television 276-309
World Time Charts 30, 31
World Time Table 32
World Charts: Europe 55, Ce. Europe 57, Africa 122, Asia 146, Pacific 177, No. America 192, Ce. America 216, So. America 237.

HOW TO USE THE WORLD RADIO TELEVISION HANDBOOK

The World Radio TV Handbook is designed to help the international radio listener obtain maximum enjoyment from his receiver.

The first section of the Handbook contains instructive articles relating to broadcasting, information regarding broadcasting and television organizations, and popular technical articles and tables of practical value to listeners.

The main section of the book (pages 58-272) contains detailed information, by country, of the **Radio Stations** and broadcasting organizations of every country in the world, including names and addresses of broadcasting companies, names and titles of leading officials, lists of broadcasting stations in each country, including frequencies, wavelengths, transmitter power, call signs (if used), and station names. Program information is also listed, including times, frequencies, and beam areas of the broadcasts in each language. The announced **location** of the st, rel. st's exc, is usually the studio and administrative location, since the tr's are often located in outlaying areas — **Power** is stated in kilowatt (kW) or Watt (W). When two powers are listed, the figures represent the lower and upper limits of power, where a station uses more than one tr. on the frequency at different times (sw) or varies the power of the tr. for day and night operation (mw).

A **listing by frequency and wavelength** of the shortwave stations of the world and long and medium wave stations by continents is presented in the last part of the Handbook, for use in facilitating the identification of stations.

Abbreviations: See page 10 for explanation.

Short-wave stations may be used either for domestic broadcasting to listeners in the same country or for international broadcasting directed to listeners in other countries.

International short-wave stations usually employ directional antennas to beam their programs to particular areas on frequencies calculated for best reception. Most international broadcasts are scheduled for the evening hours in the intended reception area, but some are in the morning or at other times during the day. The reception areas give their names to the services: European Service (or to Europe), Far Eastern Service (or to Far East), North American Service (or to North America), etc. Languages employed are those of the listeners in the area to which the broadcast is directed, also the language of the transmitting country for reception by persons understanding that language.

Best reception is usually obtained from transmissions directed to your area. However, there is a considerable amount of overlapping between many service areas and, therefore, it is often possible to obtain good reception of programs beamed to adjacent areas and, sometimes, even of programs directed to distant parts of the world. Shortwave propagation conditions change continually because of the influence of daylight and darkness, seasonal effects and solar activity. Consequently, good reception requires frequency change from time to time.

(See articles: "Radio Broadcast Reception Conditions", "Solar Activity", on the respective pages.)

Domestic short-wave stations are usually of lower power than international stations, and generally use non-directional or wide beam antennas, in order to reach local or national audiences. These stations make fewer seasonal frequency changes, and many operate on the same channel for both day and night operation. The stations are utilized to reach areas of a country where coverage by medium and long wave stations is not adequate.

The geographical Co-ordinates of the transmitter sites are given in degrees and minutes.

Long and Medium wave stations are used mainly for transmitting programs to listeners in the country in which the stations are located. These stations vary from powerful transmitters capable of being heard throughout the country to low power stations intended only for a small area in the vicinity of the transmitter.

FM (Frequency Modulation) Stations operate on very high frequencies (VHF); ranges of 88-108MHz in the Americas and 87-100MHz in other areas, and provide interference free reception over a short radius. Most FM stations relay programs of a medium or long wave station.

Frequency and Wavelength — Frequencies are measured in kilohertz per second (kHz) and megahertz per second (MHz). One hertz (named after the German physicist Heinrich Hertz) signifies "one cycle per second" and accordingly, one kilohertz (kHz) equals one kilocycle per second (kc/s). Wavelengths are measured in meters.

A formula between frequency and wavelength is as follows:

$$\text{Wavelength (m)} = \frac{300000}{\text{Frequency (kHz)}}$$

$$\text{Frequency (kHz)} = \frac{300000}{\text{Wavelength (m)}}$$

Several broadcasting stations announce frequencies in kilocycles or megacycles. A kilocycle is 1000 cycles. A megacycle is 1000 kilocycles.

Due to the propagational conditions, interference by other stations, jamming, malfunction of transmitter, reallocation of frequencies by a country or convention, or for some other reason, stations may use frequencies which are at variance with the frequency(ies) indicated in this handbook.

Beams: The azimuth of maximum radiation of the transmitting antenna is given in degrees (clockwise) from True North, where such details are given by the respective stations.

Program times used in the listings are based on the 24-hour clock. Midnight is 00.00 hours, 3 a.m. is 03.00 hours, 9 a.m. is 09.00 hours, and midday is 12.00 hours. Then, instead of starting another 12-hour cycle (p.m.), under the 24-hour system the hours increase until midnight. Thus 3 p.m. is 15.00 hours, 10 p.m. is 22.00 hours, and so on until 23.59 (11.59 p.m.) is reached and a new 24-hour cycle starts. This system eliminates any confusion between times a.m. and p.m.

Time Conversion: All programs are listed in GMT (Greenwich Mean Time). To convert from GMT to your local time, refer to the World Time Table on page 32 to determine how many hours your time is ahead or behind GMT, and add or subtract that amount in order to convert to your clock time. For quick conversion, it is useful to write the GMT hours, 00 to 24, down on one side of a sheet of paper, and then enter the correct local time opposite each GMT hour. Summertime or Daylight Saving time, adds an hour to local time so this should be taken into account in countries where it is utilized.

Program schedules: The program schedules of many countries are divided into Home Services and Foreign Services. The Home Service programs are arranged by language and by program services or networks. The Foreign Service transmissions are generally arranged by beam area, and by language for each beam area. The times and frequencies of the programs in each language are listed together in order to facilitate the determination of the times and frequencies of the broadcasts in each language.

Therefore, if you wish to hear a broadcast in a particular language from a country, refer to the listing for the country of the time and frequency of broadcasts in that language. Most broadcasts are transmitted on more than one frequency, so try the various frequencies listed, to determine which one is received best at your location.

Identification of Stations: Most stations in Europe, Middle East, Africa and Asia identify by announcing their station name and location. Most stations in North America and Pacific (incl. Australia/New Zealand) identify by the use of a call sign of 3 to 5 letters of a combination of letters and figures, of which the first, or first 2, denote the nationality in accordance with the international list of prefixes. Most stations in Latin America use a call sign (sometimes not frequently announced), a station name, and location.

In addition, many stations use musical interval signals at sign on and between programs, in order to help listeners to find the station on their dial and identify it as the desired station. These interval signals are included in the country listings.

How to identify a Station by Frequency or Wavelength: When you hear a station that is unknown to you, first try to determine some clue to its identity by attempting to determine the langauge, noting the type of program, etc. Then, note the approximate frequency or wavelength indicated on your dial, and turn to the table "Short-wave Stations of the World" in the back of the Handbook, and ascertain what stations operate in that vicinity. Next, check the program listings to determine which of the stations are scheduled to operate at that time of day, and which are most likely to be audible at your location, depending on the power and distance away. For definite confirmation, it is desirable to wait for station announcement or interval signal.

Frequency Changes: The frequencies listed are those which were scheduled for use at the time of publication. However, due to a number of reasons, including interference and changes in propagation conditions, it may be necessary for a country to make frequency changes. Often only one of the frequencies on a program will be changed, so the new frequency can be determined by tuning in the other frequencies and listening for the announcement of the frequencies being used. Reference to a publication listing the latest frequency changes for the International Stations: the **Summer-Edition to the WRTH** (published mid-June each year).

Interference: Due to the present crowded condition of medium and short wave broadcasting bands, interference may be encountered from other stations operating on the same or closely adjacent frequency. In addition to interference from other broadcast stations, there may also be interference from "Jammers", which transmit a variety of noises in an attempt to prevent certain foreign broadcasts from being heard in the country operating the jammers. When intereference is encountered, try another of the listed or announced frequencies, if several are in use, or try a broadcast at another time.

Reception from Hard-to-Hear Countries: If you wish to hear a station or program from a particular country, refer to the listing from that country, determining first whether it has any broadcasts beamed towards your area or adjacent areas, if not, refer to the frequency, time and power listing to determine where and when reception might be possible. Also, note the bands and times when stations in other countries in that part of the world are audible. It is possible to hear many far distant stations, even if they do not beam programs to your area, by listening when the propagation and clearness of channel conditions are favourable.

Verification by QSL-cards: As indicated in the program listings for the various countries, many stations are interested in receiving reports from listeners about their transmissions. These stations acknowledge reports by sending listeners a QSL-card (verification) or letter. Most **international** broadcasting stations do not require enclosure of return postage and will reply with a QSL-card or letter. **Domestic** broadcasting stations do not normally request reports from foreign listeners, so return postage

Advertising in Nigeria?

Pick
RADIO NIGERIA!

Powerful network: 19 stations national coverage — lively programmes.
Lowest unit cost per 1,000 listeners.
Reach your clients in 18 languages including, of course, English through 3,000,000 wireless sets and 55,000 wired boxes.
60,000,000 Nigerians waiting for your messages.
What a big market !

should be sent with reports to these stations. Return postage should be sent in the form of an International Reply Coupon (IRC), obtainable at post offices in most countries. Reports should be sent to the station address given in the country listings. They can be written in English in most cases, but Spanish is preferred by South and Central American stations.

Reception reports are useful to radio engineers in selecting the most suitable frequencies for broadcasts beamed to your area. Reports are preferred in the SINPO code, which is as follows:

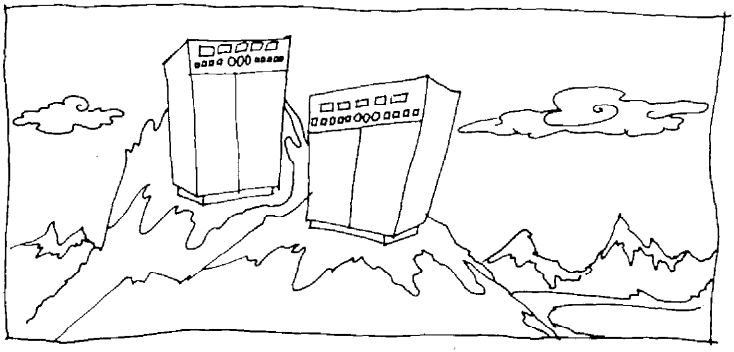
S (Signal Strength)	I (Interference)	N (Noise)	P (Prop. Disturb)	O (Overall Merit)
5 excellent	5 nil	4 slight	5 nil	5 excellent
4 good	4 slight	3 moderate	4 slight	4 good
3 fair	3 moderate	2 severe	3 moderate	3 fair
2 poor	2 severe	1 extreme	2 severe	2 poor
1 barely aud.	1 extreme		1 extreme	1 unusable

Electric Currents: For countries where information is available the type and frequency of current has been included; also, you will find in parenthesis an indication of the frequency stability; if stable enough for electric clocks (yes), if not (no).

Information about **Television Stations** is provided in the section following the radio section, including names and address of Television companies, location, power and channel of Television stations, and program schedules of these stations.

With reference to the first Television page we give a short explanation of some of the technical words and figures mentioned — The announced **location** of the station is usually the studio location, since most TV tr's are situated upon the highest location in the area in order to obtain more widespread coverage — Two systems of **modulation** are used to transmit the audio signal of the TV st's either frequency modulation (FM) or amplitude modulation (AM). All video transmissions are normally amplitude modulated — **Polarization** signals are horizontally polarized (H) or are vertically polarized (V). Polarization is usually selected according to the need for a reduction of interference with other stations, or to obtain engineering standards required by the government of the country in which the st. is located — The **band width** is shown in MHz and represents the limits within which both the video and audio tr. are contained — **Number of lines** transmitted express the number necessary to form one complete frame or picture, and **frames** state the number of times per second the picture area is completely scanned — **Video and Audio Power** is indicated in kilowatt (kW) or Watt (W). In most cases the figures denote the effective radiated power (ERP) due to the stations antenna system — **Video and Audio Frequency** is stated in MHz per sec. The relationship between the quoted figures and the limits of the video band varies among countries and can be determined by reference to the standards of the systems used by the respective countries.

FM hermits



They don't need people around to provide continuous on-air operation.

RCA FM transmitters—from 1-kW to 40-kW—offer you built-in facilities that guarantee *continuous* on-air operation... even in unattended locations. They all have built-in provisions for remote control. And you can work them in parallel for automatic stand-by operation! Result: You'll have a fail-safe system. If one transmitter goes off, the other one continues to operate... *automatically!*

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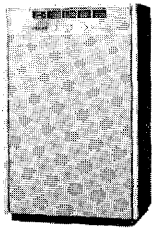

And the finest FM signal possible. This is *not* an option. It's yours as "standard equipment" with every RCA FM transmitter!

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SUNBURY-on-THAMES, MIDDLESEX, ENGLAND, RCA Ltd., Lincoln Way, Windmill Road

ABBREVIATIONS

Acc=Accepted
Addr.=Address
AD=Advertising
Adm.=Administration
Adv.=Advertisement
Ag.=Acting
Amat.=Amateurs
ALF=Annual Licence Fee
A.M.=Amplitude modulation
Ann.=Announcement
Ant.=Antenna
Approx.=Approximately
Apr.=April
Apt.=Apartado
Assoc.=Associate(ion)
Asst.=Assistant
Aug.=August
Av=Avenue, Avenida
a.c.=Alternating Current
B.P.=Boite Postale
Br.=British
Broadc.=Broadcast(ing)
C=Central
Ca.=Calle
Cas.=Casilla
Ch.=Channel
chmn.=Chairman
Ci.=Ciudad
Co.=Company
Comm.=Commercial
Contr.=Controller
Corp.=Corporation
C.P.=Caixa Postal
Cra=Carrera
c/s=Cycles per second
D=Daily
d.=Directional aerial
dc=direct current
Dec.=December
Def.=Definition
Dem.=Democratic
Dept.=Department
Dep.=Deputy
Dir.=Director
Dir. Gen.=Director General
Div.=Division
DX=Long distance
E.=English
Ea.=East
E.C.=Electric Current
E. by R.=English by Radio
Ed.=Edificio
Educ.=Education, Educational
Emis.=Emisora
Equip.=Equipment
Eng.=Engineer, Engineering
ERP=Effective radiated power
exc.=Except
Exec.=Executive
exp.=Experimental
Feb.=February
Fed.=Federal
F.=French
F.I.=Financing
F.M.=Frequency modulation
F.PL.=Future plans
For. Rel.=Foreign Relations
Fri=Friday
Freq.=Frequency
G.=German
G.C.=Geographical Coordinates*
Gen.Mgr.=General Manager
G.M.T.=Greenwich Mean Time
Gov.=Government
Gr.=Greek
h=Hour
Inc.=Incorporated
incl.=including
Inf.=Information
Int.=International
Int Sig=Interval Signal
I.p.s.=Inches per second
Irr.=Irregularly
Isl.=Islands
Jan.=January
kc=Kilocycles
kHz=Kilohertz
kW=Kilowatt
L.P.=Leading Personalities
L=Language
L.N.=Local News
L.L.=Language Lessons
L.T.=Local Time
Man.=Managing
Mgr.=Manager
MHz=Megahertz
Miss.=Missionary
Mon=Monday
m.b.=Meter band
Mbg.=Mailbag
MW.=Medium Wave
N.=News
Nac.=Nacional
Nat.=National
Net.=Network
nd=non directional antenna
No.=North
Nov.=November
occ.=Occasionally
Oct.=October
Org.=Organisation
Pa.=Pacific
P.=Portuguese
Po.=Population
Pol.=Polarisation
P.R.=People's Republic
Pr.=Private
Prod.=Production
Pr.L.=Principal languages
Pres.=President
Prgr.=Programme
Pub.=Publication
R=Radio
Revrs.=Receivers
Re.=Report
Rec.=Recordings
Red.=Rediffusion
Rdif.=Radiodiffusion
Reg.=Regional
Rel.=Relay(ing), Relations
Rlg.=Religious
Rep.=Republic
Rf.=Rundfunk
Rp.=Return postage required
Rus.=Russian
Sat=Saturday
Sce.=Service
sched.=Schedule
Secr.=Secretary
Sen.=Senior
Sep.=September
So.=South
Soc.=Sociedad(e)
So.We.=South West
Sp.=Spanish
SSR=Soviet Socialist Rep.
St.=Station
Str.=Street
Su.=Summer
Sun=Sunday
Superv.=Supervisor
SW=Shortwave
Te.=Telephone
Techn.=Technical
Terr.=Territory
Thurs=Thursday
Tr.=Transmitter
Trop.=Tropical
Tues=Tuesday
T.V.=Television
H=Horizontal polarisation
Hqs.=Headquarters
I=Italian
V=Vertical polarisation
V.=Verification
VHF=Very High Frequency
W=Weekdays
We.=West
UHF=Ultra High Frequency
Univ.=University
Wed.=Wednesday
Wi.=Winter
Wrp.=Weather report
* given in degrees and minutes.

Abbreviations of broadcasting organizations, countries. ABC=Australian Broadc. Comm. — AFN=American Forces Network — AFRTS=Armed Forces Radio and Television Sce. — AIR=All India Radio — BBC=British Broadc. Corp. — BCC=Broadcasting Corpo. of China — BFBS=British Forces Broadcasting Service — BFN=British Forces Network — BR=Bayrischer Rundfunk — BRT=Radiodiffusion Television Belge — CBC=Canadian Broadc. Corp. — COPE=Cadena de Ondas Populares Española — DLF=Deutschlandfunk — DW=Deutsche Welle — FBS=Forces Broadc. Service — FCC=Federal Communications Commission — FEBC=Far East Broadc. Company — ITA=Independent Television Authority — NDR=Norddeutscher Rundfunk — NHK=Nippon Hoso Kyokai — NZBC=New Zealand Broadc. Corpo — OCORA=Office de Cooperation Radiophonique — ORTF=Office de Radiodiffusion Télévision Française — RAE=Radiodiffusion Argentina al Exterior — RAI=Radiotelevisione Italiana — RBI=R. Berlin International — REM=Red de Emisoras del Movimiento — RFE=Radio Free Europe — RIAS=Rundfunk in Am. Sector — RNE=Radio Nacional de España — RRI=Radio Republik Indonesia — RSA=Radio South Africa — RTB=Radiodiffusion Television Belge — SABC=So. African Broadc. Corpo. — SBC=Swiss Broadc. Corpo. — SDR=Süddeutscher Rundfunk — SEARV=South East Asia Radio Voice — SER=Sociedad Española de R.dif. — SR=Saarländischer Rundfunk — SSS=Swiss Shortwave Service — SWF=Südwestfunk — TRT=Turkish Radio-Television Establishment — TWR=Trans World Radio — VOA=Voice of America — WDR=Westdeutscher Rundfunk — WNYW=R. New York Worldwide — UN=United Nations.

Af=Africa — Am=America — Au=Australia — As=Asia — Co=Congo — Czech=Czechoslovakia Socialist Rep — Eu=Europe — FE=Far East — ME=Middle East — NE=Near East — GB=Great Britain — G.D.R.=German Democratic Republic — N.Z.=New Zealand — UAR=United Arab Republic — UK=United Kingdom of Gt. Britain — USA=United States of America — USSR=Union of the Soviet Socialist Republics.

Abbreviations of firms: AKG=Akustiche und Kino-Gerate G.m.b.H, Vienna — AWA=Amalgamated Wireless Australia Ltd — CFTH=Compagnie Française Thomson Houston Paris — GE=General Electric — L.G.T.=Laboratoire General des Telecommunications — NEC — Nippon Electric Company, Tokyo — RCA=Radio Corporation of America — STC=Standard Telephone & Cables Ltd. — T.C.A. = Telecommunications of Australia — TRT — Télécommunications Radioélectriques et Téléphoniques, Paris.

Special Abbreviations for Shortwave Listeners:
Q-Codes: The following "Q" Codes, devised at the Cairo Convention of 1938, are used among shortwave enthusiasts listening to broadcasting stations (so called DXers): QRG=Frequency; QRK=Readability; QRM=Interference (from other transmitters); QRN=Atmospheric interference (static); QRT=Close down; QSA=Signal strength; QSB=Fading; QSL=Verification (of reception); QTH=Location.

The following abbreviations are generally used in club publications:
BC=Broadcast; BCB=Broadcast band, i.e. medium wave band; CW=Continuous Wave, i.e. morse code; HF=High Frequency; ID=Station Identification; IRC=International Reply Coupon; LA=Latin America; mx=music; nx=news; OM=Old Man, a general term of greeting; RX=Receiver; SSB=Single Side Band; SWL=Shortwave Listeners; Tnx=Thanks; tr=Transmitters; 73's=Best Wishes.

THE INTERNATIONAL BROADCAST INSTITUTE

The International Broadcast Institute (IBI) is a non-profit, non-governmental, foundation-supported organization concerned with the contemporary revolution in communications. Its founders believe that advances in the technology of the mass media have far outraced man's understanding of their utilization in the service of society.

Achievements in engineering and electronics must now be matched by social and institutional arrangements to permit the freer flow of communications and their wider use for informational, cultural and educational purposes in both developed and newly-developing countries. Further, there must be a greatly accelerated series of objective studies concerning the impact of broadcast media upon viewers and listeners.

IBI seeks to bring together broadcasters, social scientists, journalists and others for a systematic analysis of the economic, cultural, social, legal and political factors related to these technological developments.

IBI plans to accomplish its objectives by commissioning and disseminating independent and objective studies; by organizing seminars, conferences and confrontations; and by publishing newsletters and other materials designed to illumine vital issues in the field of mass communications.

The IBI will not produce or distribute programs; will not compete with stations or networks; will not lobby for legislation; will not overlap or duplicate the work of existing international organizations such as UNESCO and the regional broadcasting unions; will not represent vested interests, whether economic or political; and will sell no services.

As an association of individuals rather than of institutional or governmental representatives it has advantages of flexibility, freedom of action and informality.

As a result of the initiative of the Ford Foundation the IBI was established in 1967 and opened its office in Rome, Italy, in February 1969. A Ford Foundation grant of $300,000 over three years was supplemented by smaller contributions and a pledge of support from the Rockefeller Brothers Fund if additional amounts could be raised from other sources. Efforts are now being made to broaden IBI's financial base by obtaining support from institutions in diverse countries and by enrolling Contributing, Voting and Supporting Members throughout the world.

Under the leadership of Chairman Olof Rydbeck, Director General of the Swedish Broadcasting Corporation and Honorary Chairman Yoshinori Maeda, President of NHK, Japan, twenty-nine Trustees from sixteen countries and the United Nations Secretariat establish policy which is carried out by a small staff in Rome. These Trustees are chosen as individuals, not as representatives of institutions or governments. Their names are listed on page 19 in this Handbook.

At the last annual meeting, which took place in Hakone, Japan, in May 1969, a number of projects were authorized. These include the following:

1. An international study of communication satellite tariffs.

2. A study of international law in relation to space communications to be conducted independently in at least three countries to come to grips with problems and opportunities presented by new technology.

3. A symposium on the new technology and its social consequences to be held in the fall of 1970.

4. A 1970 follow-up to the successful conference on problems of television news coverage which IBI held at the Rockefeller Foundation's Villa Serbelloni in Bellagio, Italy, during February 1969. This concerned the impact of the media as well as the possible influence of televised news coverage on the event itself.

5. A program to encourage an increase in the number and quality of doctoral dissertations in the field of international broadcasting.

6. The release for six months to one year of IBI Fellows by broadcasting organizations. During these periods the IBI Fellows would prepare monographs on subjects of their specialized competence. Topics would be selected for their broad implications to mass communications throughout the world.

It is hoped that as IBI membership increases, regional affiliates can be established and that these links will strengthen the possibilities of a freer flow of communications throughout the world. The founders of IBI believe that the new tools of communication give mankind a powerful weapon for survival and enlightenment. They propose to stimulate a world-wide dialogue about the role of mass communications and society.

Arthur D. Morse,

Arthur D. Morse, an American author and former Executive Producer of CBS REPORTS, is Executive Director of the International Broadcast Institute.

2
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- Philips equipment covers the complete range from microphone to broadcast transmitter, from television camera to aerial, from line amplifier to radio link.

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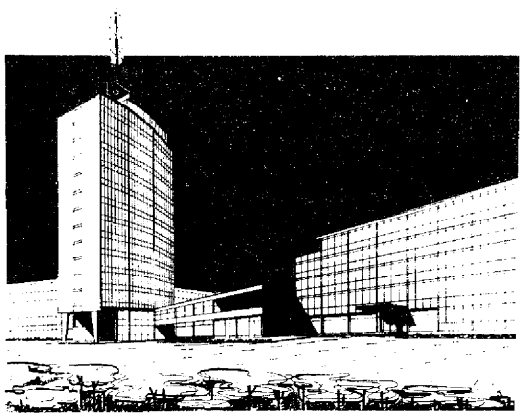

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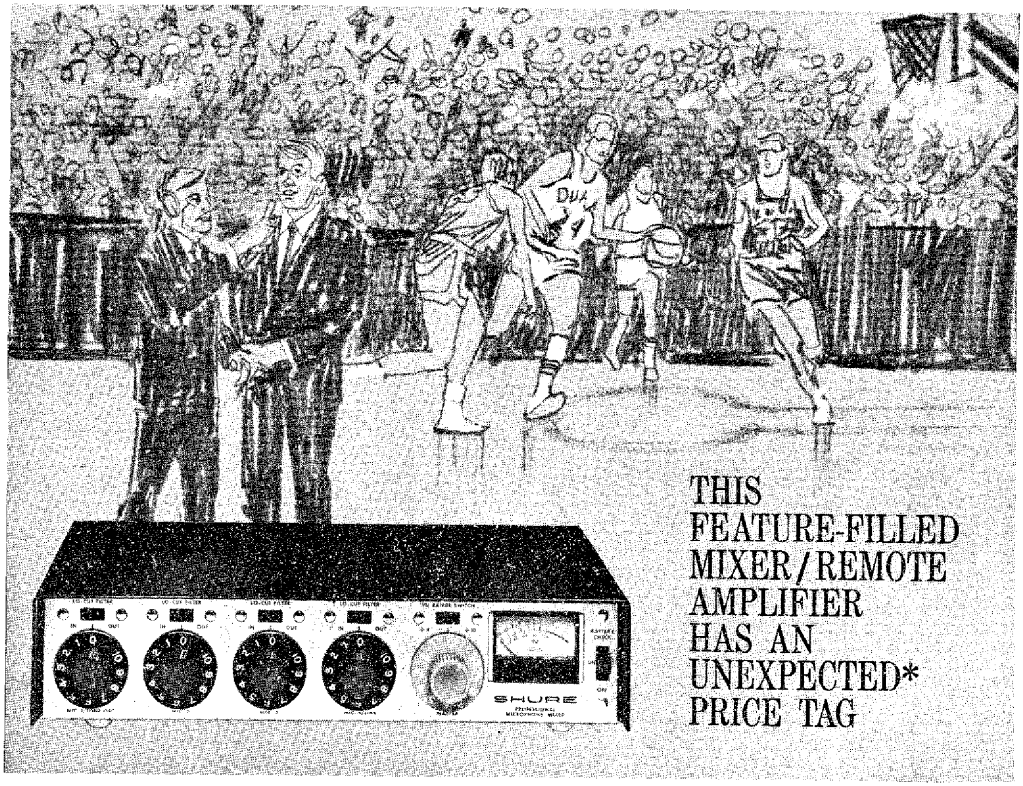
FULL INFORMATION SEE **POLAND**



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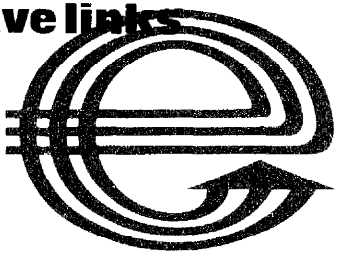

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INTERNATIONAL BROADCASTING & TELEVISION ORGANIZATIONS

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Addr: Place des Nations, 1211 Geneva 20, Switzerland. **Te:** 347000, 348000. **Telex:** 23000.
Secretary General: Mohamed Mili. Vice Secr. Gen: Richard Butler.
International Frequency Registration Board (IFRB)
Chairman: Taro Nishizaki. **Vice Chairman:** Vladimir Savantchuk.
Intern. Tel. & Tel. Consultative Committee (CCITT). Dir: J. Rouvière, France.
Intern. Radio Consultative Committee (CCIR). Director: Mr. Jack W. Herbstreit; Study Group X (broadcasting), Chairman: A. P. Walker, USA; Study Group XI (television), Chairman: E. Esping, Sweden; Study Group XII (Tropical Broadc.), Chairman: Chaman Lal, India.
Administrative Council: Algeria, Argentina, Australia, Brazil, Canada, China, Dahomey, Ethiopia, Federal Rep. of Germany, France, India, Ireland, Italy, Japan, Lebanon, Malagasy Rep, Mexico, Morocco, Nigeria, Pakistan, Poland, Saudi Arabia, Switzerland, Uganda, United Kingdom, United States of America, USSR, Venezuela, Yugoslavia.
Membership (137 members as at 1st October 1969): Afghanistan, Albania (People's Rep. of), Algeria (Dem. and Popular Rep. of), Saudi Arabia (Kingdom of), Argentine Rep, Australia (Commonwealth of), Austria, Barbados, Belgium, Bielorussian SSR, Burma (Union of), Bolivia, Botswana (Rep. of), Brazil, Bulgaria (People's Rep. of), Burundi (Kingdom of), Cambodia (Kingdom of), Cameroon (Federal Rep. of), Canada, Central African Rep, Ceylon, Chile, China, Cyprus (Rep. of), Vatican City State, Colombia (Rep. of), Congo (Dem. Rep. of the), Congo (Rep. of the) (Brazzaville), Korea (Rep. of), Costa Rica, Ivory Coast (Rep. of the), Cuba, Dahomey (Rep. of), Denmark, Dominican Rep, El Salvador (Rep. of), Terr's represented by the French Overseas Post and Telecomm. Agency, Ecuador, Spain, USA, Ethiopia, Finland, France, Gabon (Rep.), Ghana, Greece, Guatemala, Guinea (Rep. of), Guyana, Haiti (Rep. of), Upper Volta (Rep. of), Honduras (Rep. of), Hungarian People's Rep, India (Rep of), Indonesia (Rep. of), Iran, Iraq (Rep. of), Ireland, Iceland, Israel (State of), Italy, Jamaica, Japan, Jordan (Hashemite Kingdom of), Kenya, Kuwait (State of), Laos (Kingdom of), Lebanon, Lesotho (Kingdom of), Liberia (Rep. of), Libyan Arab Republic, Liechtenstein (Principality of), Luxembourg, Malaysia, Malawi, Maldives (Republic of), Malagasy Rep, Mali (Rep. of), Malta, Mauritius, Morocco (Kingdom of), Mauritania (Islamic Rep. of), Mexico, Monaco, Mongolian People's Rep, Nauru, Nepal, Nicaragua, Niger (Rep. of the), Nigeria (Federal Rep. of), Norway, New Zealand, Uganda, Pakistan, Panama, Paraguay, Netherlands (Kingdom of the), Peru, Philippines (Rep. of the), Poland (People's Rep. of), Portugal, Spanish Provinces in Africa, Portuguese Overseas Provinces, Syrian Arab Rep, United Arab Rep, Federal Rep. of Germany, Socialist Federal Rep. of Yugoslavia, Ukrainian SSR, Somali Rep, Rhodesia, Roumania (Socialist Rep. of), United Kingdom of Great Britain and Northern Ireland, Rwanda (Rep. of), Senegal (Rep. of the), Sierra Leone, Singapore, Sudan (Rep. of the), South Africa (Rep. of) and Territory of South West Africa, Southern Yemen (People's Rep. of), Sweden, Switzerland (Confederation), Tanzania (United Rep. of), Chad (Rep. of the), Czechoslovak Socialist Rep, Territories of the USA, Overseas Terr. for the International relations of which the Gov. of the UK are responsible, Thailand, Togolese Rep, Trinidad and Tobago, Tunisia, Turkey, Union of Soviet Socialist Rep, Uraguay (Oriental Rep. of), Venezuela (Rep. of), Vietnam (Rep. of), Yemen, Zambia (Rep. of).

EUROPEAN BROADCASTING UNION (EBU)
UNION EUROPEENNE DE RADIODIFFUSION (UER)
Seat, Administrative Office, Department of Legal Affairs: 1, rue de Varembé, CH-1211 Geneva 20, Switzerland. **Technical Centre:** 32, Av. Albert Lancaster, Brussels 18, Belgium.
Receiving and Measuring Station: Jurbise (Belgium). Eurovision Control Centre: Palais de Justice, Brussels, Belgium.
Administrative Council: President: J. B. Broeksz, NOS (Netherlands). Vice-Presidents: Dr. I. Pustisek (JRT, Yugoslavia), W. Hess (ARD, German Fed. Rep.).
Administrators: Representatives of broadc. organisations in France, Germany (Fed. Rep.), Italy, Netherlands, Norway, Spain, Sweden, Switzerland, Tunisia, United Kingdom (BBC) and Yugoslavia.
Dir. Administrative Office: H. Hahr. **Dir. of Legal Affairs:** G. Straschnov. **Dir. of Technical Centre:** G. Hansen.
Active Members: Broadcasting organisations in: Austria, Belgium, Cyprus, Denmark, Finland, France, German Fed. Rep. (ARD, ZDF), Greece, Iceland, Ireland, Israel, Italy, Lebanon, Luxembourg, Monaco, Morocco, Netherlands, Norway, Portugal (ENR, RTP), Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom (BBC, ITA/ITCA), Vatican State, Yugoslavia.
Associate Members: Broadcasting organisations in: Algeria, Australia (ABC, Federation of Australian Commercial Television Stations), Brazil (Associação Brasileira de Emissoras de Rádio e Televisão, Diarios Associados Ltda, TV Globo Ltda), Canada (CBC), Ceylon, Chad, Congo (Kinshasa), Costa Rica, Dahomey, Gabon, Ghana, Honduras, Iran, Ivory Coast, Japan (FTC, MBS, NAB, NET, NHK, NTNC, TBS), Kenya, Kuwait, Liberia, Libya, Malagasy Republic, Malawi, Malta, Mexico (Telesistema Mexicano S.A, Televisión Independiente de México), New Zealand, Niger, Nigeria, Pakistan (R. Pakistan, Pakistan Television Corporation Ltd), Peru (Teledos S.A, Panamericana Televisión, S.A), Rep. of South Africa, Rhodesia, Tanzania, United States (ABC, CBS, NAEB, NBC, NET, Time-Life Broadcast Inc, US Information Agency), Upper Volta, Venezuela.
Publications: EBU Review — every month in English and French, published in two separate parts: A (Technical) and B (General and Legal) — Lists of European stations (long and medium waves, VHF sound broadcasting, and television) — General, Legal and Technical Monographs — Reports of seminars on educational television.

INTERNATIONAL RADIO AND TELEVISION ORGANISATION (OIRT)
Addr: 15, U Mrázovky, Prague 5, Czechoslovakia. **Cable:** Interadif, Praha.
Nature: International Organization dealing with practical and theoretical questions connected with broadcasting and television prgrs. and technique and cooperation between broadcasting and television organizations.
Governing Body: General Assembly consisting of one representative for each active member.
Administrative Council: Consisting of 7 to 13 members. Ag. Chmn. for 1969-70: Eino S. Repo. Dir. Gen. of Oy. Yleisradio Ab. Vice Chmn. for 1969-70: representatives of Radio and Television Organizations of Poland and Mongolia.
Members: Belorussian SSR, Chinese People's Rep, Czechoslovak People's Rep, Mongolian People's Rep, Poland People's Rep, Soc. Rep. of Rumania, Rep. of Sudan, Union of Soviet Socialist Rep, United Arab Rep.
OIRT-Members: Radio and Television Organizations of: People's Rep. of Albania; Algeria (associate member); Belorussian SSR; People's Rep. of Bulgaria; Chinese People's Rep; Rep. of Cuba; Czechoslovak People's Rep; Estonian SSR; Finland; German Democratic Rep; People's Rep. of Hungaria; Iraq; People's Dem. Rep. of Korea; Latvian SSR; Lithuanian SSR; Rep. of Mali; Moldavian SSR; People's Rep. of Mongolia; People's Rep. of Poland; Rumanian Socialist Rep; Sudan (Television); Ukrainian SSR; Union of Soviet Socialist Rep; United Arab Rep; People's Rep. of Vietnam.
Specialised Commissions: Technical Commission: Chmn: N. Stanev (Bulgarian People's Rep), Radio Prgr. Commission: Chmn, W. Sokorski, Pres. of the Polish Radio and TV Committee. Television Prgr. Commission and Intervision Council: Chmn: G. A. Ivanov, Vice-Pres. of the Radio and TV Committee of the Council of Ministers of the USSR.
Publications: Review of the International Radio and Television Organization (OIRT) "Radio-Television" in English-French, Russian and German, issued every two months; Monthly OIRT Information, and quarterly Catalogues radio prgrs suitable for exchange.
Meetings: General Assembly and Administrative Council every year.
Relations: With all important organizations active in the field of radio and television.

ASIAN BROADCASTING UNION

Headquarters: ABU Secretariat, c/o NHK, Uschisaiwai-cho, Chiyodaku, Tokyo, Japan. **Cable:** ABUNI, Tokyo. **Sec. Gen's Office:** Box 3636, GPO, Sydney, Australia. **Cable Address:** ASBUN, Sydney. **President:** Yoshinori Maeda, Pres, Nippon Hoso Kyokai, Japan. **Vice-Presidents:** G. H. Stringer, Dir. Gen, New Zealand Broadc. Corpo: Dol Ramli, Dir, Radio Malaysia. **Administrative Council:** Radio Afghanistan, Australian Broadcasting Commission, Broadcasting Corporation of China, Ceylon Broadcasting Corporation, Nippon Hoso Kyokai, Korean Broadcasting System, Radio/TV Malaysia, New Zealand Broadcasting Corporation, Turkish Radio and TV Corporation.

Secretary-General: Sir Charles Moses, CBE.

Full Members: Radio Afghanistan, Australian Broadcasting Commission, Ceylon Broadcasting Corporation, Broadcasting Corporation of China, All India Radio, Radio Republik Indonesia/Televisi Republik Indonesia, Radio Iran/National Iranian Television, Nippon Hoso Kyokai, Korean Broadcasting System, Radiodiffusion National Lao, Radio and TV Malaysia, Radio Nepal, New Zealand Broadcasting Corporation, Radio Pakistan, Philippine Broadcasting Service, Radio and TV Singapore, Radio Thailand, Tonga Broadcasting Commission, Turkish Radio and TV Corporation, UAR Broadcasting and Television Corporations, Radio Viet-Nam, Samoan Broadcasting Service.

Associate Members: Federation of Australian Commercial Broadcasters, Brunei Broadcasting Service, Canadian Broadcasting Corporation, Fiji Broadcasting Commission, Office de Radiodiffusion-Télévision Française, Arbeitsgemeinschaft der Öffentlich-Rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland, Zweites Deutsches Fernsehen, Gilbert & Ellice Islands Broadcasting Service, Pacific Broadcasting Corporation, Radio Hong-Kong, Hong Kong Commercial Broadcasting Co. Ltd, Munhwa Broadcasting Corporation, Compagnie de Télévision du Liban et du Proche Orient S.A.L, Nigerian Broadcasting Corporation, Pakistan Television Corporation Ltd, Mindanao Broadcasting Network, Solomon Islands Broadcasting Service, Sveriges Radio, Swiss Broadcasting Corporation, British Broadcasting Corporation, Independent Television Authority/Independent Television Companies Association Ltd. (UK), American Broadcasting Companies Inc. (USA), Columbia Broadcasting System Inc. (USA), National Broadcasting Company Inc. (USA), National Education Television (USA), National Association of Educational Broadcasters (USA), Time-Life Broadcast Inc. (USA), International Broadcasting Service of the US Information Service.

The ABU is a Union of national broadcasting organisations in the Asian/Pacific region which was formally established on 1st July 1964 following five Asian Broadcasters' Conferences held between 1957 and 1963 in Tokyo, Kuala Lumpur and Seoul. The first annual General Assembly of the ABU was held in Sydney in November 1964. Succeeding General Assemblies were held as follows: 1965, Tokyo; 1966, Taipei; 1967, Singapore; 1968, New Delhi; 1969, Auckland. Administrative Council meetings, the first of which was held in Tokyo in June 1966, have been held successively in Tokyo, Taipei, Bangkok, Singapore, Seoul, New Delhi, Kabul and Auckland.

Publications: ABU Newsletter (monthly in English), ABU Technical Review (Bi-monthly in English).

UNION OF NATIONAL RADIO & TELEVISION ORGANIZATIONS OF AFRICA (URTNA)

L.P: Pres. of the Union: Daniel Amiot-Priso (Cameroon); Vice-Pres: Garba Sidikou (Niger). Secr. Gen: M. Bassiouni. Dir. Technical Centre: A. H. Antar. Members of the Adm. Council: Cameroon, Chad, Congo-Brazza, Ghana, Ivory Coast, Mali, Niger, Nigeria and Senegal.

Headquarters: 101 Rue Carnot, BP3237, Dakar, Sénégal.

Technical Centre: A monitoring Centre is built in Markala (Mali). The duties of this centre are the following:

1) Monitoring the broadcasting frequencies of member organizations and submitting comprehensive listening reports; it will also give the necessary suggestions to avoid interference with one another or with other stations.

2) To measure the field intensity and the transmission frequencies of the different broadcasting stations of the member organizations and to forward a report.

3) To participate in the research and measurements carried out by different International Broadcasting Organizations and Unions and to exchange services and technical information with them. A Monitoring Service is presently provided to members from a temporary place; other technical services will be provided when the URTNA Centre is operative.

ARAB STATES BROADCASTING UNION (ASBU)

Nature: Intergovernmental union within the framework of the League of Arab States comprising the Arab Radio and TV Organisations (Established February 1969).

Supreme Body: General Assembly, meeting in ordinary sessions once a year. The Presidency of the Gen. Ass. held in rotation among the full members according to the alphabetical order of the names of the member States. The term of office: one year. The Vice-Presidency held by the member who shall assume the Presidency at the next session.

1969 Pres: Dia El Din El Refai (Jordan); Vice-Pres: Aly Shommo (Sudan). 1970 Pres: Aly Shommo (Sudan); Vice-Pres: Mohamed Said El Sahaf (Iraq).

Adm. Council: Pres.+Vice-Pres.+one full member according to the alphabetical order of the names of the member States.

General Secretariat: Add: 23 Kasr el Nil Str, Cairo, UAR. **Cable:** Asbunion, Cairo. Sec. Gen: Salah Abdel Kader.

Engineering Centre: Add: POB 2231, Khartoum, Sudan. Dir. Mostafa Allam.

Membership: Full members: Broadcasting organisations of Jordan, Sudan, Iraq, Syria, UAR, Kuwait, Libya, Palestine, Abu Zabii, Qatar.

Associate members: Other broadcasting organisations the General Assembly accepts by a majority of three-quarters of its full members.

Permanent Committees: Prgr. Comm: Pres. Aly Shommo. Engineering Comm: Pres. Aly Abu Kandil.

ASOCIACION INTERAMERICANA DE RADIODIFUSION (AIR)

Central Office: Suite 712, Ingraham Bldg, 25 SE 2nd Ave, Miami, Fla. 33131, USA.

L.P: Pres: Herbert E. Evans, 40 W.S. Long St, Columbus, Ohio 43215, USA. 1st Vice Pres: Dr. J. Jimenez de Arechaga, Calle Yi 1264, Montevideo, Uruguay. 2nd Vice Pres: Guillermo Morales B, Paseo de la Reforma 400, Desp 302, Mexico, DF, Mexico. Secr: G. Cortés Cruz, Casilla 10476, Santiago, Chile. Treasurer: Abel Mestre, 270 Giralda Ave, Coral Gables, Fla. 33134, USA.

INTERNATIONAL BROADCAST INSTITUTE

Headquarters: 525 Via del Corso, 00186 Rome, Italy. **Te:** 688196. **Cable:** Intercast, Roma.

Officers: Honorary Chmn: Yoshinori Maeda, Pres. Nippon Hoso Kyokai, Japan. Chmn: Olof Rydbeck, Dir. Gen. Swedish Broadcasting Corporation. Vice-Chmn: Sig Mickelson, Vice Pres. Time-Life Broadcast; Agustin Edwards, Publisher, El Mercurio, Santiago, Chile. **Treasurer:** Louis G. Cowan, former Pres. of CBS TV Network, Publisher, New York.

Trustees: Luigi Barzini (Italy), Abderrazak Berrada (Morocco), Klaus von Bismarck (W. German), Asa Briggs (UK), Sir Geoffrey Cox (UK), Jean d'Arcy (UN), George F. Davidson (Canada), Joseph M. Goldsen (US), Klaus Harpprecht (W. Germany), Junzo Imanichi (Japan), Neville D. Jayaweera (Ceylon), Leland L. Johnson (US), Eldred D. Jones (Sierra Leone), Umar Kayam (Indonesia), Christopher Kolade (Nigeria), Pierre Lazareff (France), Elmer W. Lower (US), Robert McKenzie (UK), Narayana Menon (India), Sir Charles Moses (Australia), Vladimir Porché (France), Joseph E. Slater (US), Jerome B. Wiesner (US), Rt. Hon. Kenneth G. Younger (UK).

Exec. Dir: Arthur D. Morse. **Dep. Dir:** Hiroshi Sakamoto.

The IBI is non-profit, non-governmental, foundation-supported association whose objective is to foster the freer flow of communication and its wider use for informational, cultural and educational purpose. The IBI brings together broadcasters, scientists and social scientists, journalists and professional leaders for systematic analyses of the economic, cultural, social, legal and political effects of contemporary communication technology.

The IBI was formally established in September 1968, after preparatory and founding meetings in Italy, the US and England. In February 1969 the IBI sponsored an international conference on problems of television news coverage, and during 1970 it is holding a symposium on the new technology and its implications. The IBI's current research projects include studies of legal aspects of space communications, of present tariff practices for

satellite transmissions, of the impact of broadcast media and of communication systems in developing countries. Individuals may become Voting or Contributing Members of the IBI; Supporting Membership is open also to institutions, broadcasting organizations, foundations and corporations.

UNESCO
(United Nations Educational, Scientific and Cultural Organisation).

Addr: Place de Fontenoy, Paris 7, France. **L.P:** Dir. Gen: Renê Maheu. Asst. Dir. Gen. for Communication: Tor Gjesdal.
Office of Public Information: Dir: Ludwig Schulte-Strathaus.

Radio and Visual Information Division: Chief: H. R. van Stuwe. Deputy Chief: Gerald S. Wade — Regional Units: Anatoli Bolgarev (Russian language production), Jean Calvel (French language production), Rex Keating (English language production), Luis Lopez Alvarez (Spanish language production). Film and TV Officer: Jean S. Bhownagary.

Mass Communication Department: Division of Development of Mass Media: Dir: Pierre Navaux. Division of the Use of Mass Media for Out-of-School Education: Chief: Henry R. Cassirer.

UNITED NATIONS
Addr: United Nations, N.Y. 10017, USA.
L.P: Asst. Secr. Gen. for Public Information: A. A. Hamid. Director of Radio and Visual Scs. Div: Jean d'Arcy. Dep. Dir: D. Ritchie. Chief of Operations and TV: M. Hayward. Chief of Radio: C. Ortiz-Tinoco. Chief of International Communications: J. C. Nichols.
Regional Units: Chief of Latin American-Iberian Scs: F. Gonzalez-Aller; East European Sce: V. Amosov; French and West European Sce: G. Lauzun; S.E. European Sce: Mrs. S. Halman, Mrs. M. Teodorovic; S.E. Asia Sce: G. Farid; Arabic and Middle East Sce: A. Hamdy; African Sce: A. Magoma. For the broadcasting schedule of United Nations Radio please refer to United Nations (USA and Switzerland).

UNIVERSITE RADIOPHONIQUE ET TELEVISUELLE INTERNATIONALE (URTI)
Addr: 116 Ave. du Président Kennedy, Paris 16è, France.
L.P: Prés: M. René Dovaz. Secr. Gen: M. Armand Lanoux. Head of Coordination Sce: Mme. Geneviève Druon.
Permanent Committee:
Radio: Miss Elsie Ferguson (Great Britain), Hassen Abbas (Tunisia), Geza Simonffy (Hungary), Alfredo Rui Goncalves Pereira (Portugal).
Television: Paul Ulveling (Luxembourg), Edouard Haas (Switzerland), Lennart Ehrenborg (Sweden), Ernst Hilger (Austria).

COMMONWEALTH BROADCASTING CONFERENCE
Members: All India Radio, Australia Broadcasting Commission, British Broadcasting Corporation, Canadian Broadcasting Corporation, Caribbean Broadcasting Corporation, Ceylon Broadcasting Corporation, Cyprus Broadcasting Corporation, Ghana Broadcasting Corporation, Jamaica Broadcasting Corporation, Lesotho Broadcasting Service, Malawi Broadcasting Corporation, Malta Broadcasting Authority, Mauritius Broadcasting Corporation, New Zealand Broadcasting Corporation, Nigerian Broadcasting Corporation, Radio Botswana, Radio Gambia, Radio & Television Malaysia, Radio Pakistan, Radio Sierra Leone, Radio & Television Singapura, Radio Tanzania, Radio & Television Uganda, Voice of Kenya, Zambia Broadcasting Services.

Associate Members: Bahamas Broadcasting and Television Commission, Fiji Broadcasting Commission, Radio Hong Kong, Windward Island Broadcasting Service. Established in 1945, the Conference is a standing association of the national public service broadcasting organizations which are responsible for the planning and presentation of the broadcast programmes of independent Commonwealth countries.
The seventh conference was held in New Zealand from 20th February to 6th March 1968, and made a particular study of the educational responsibilities of national broadcasting. The theme of the eighth conference which will meet in Jamaica in June 1970 will be "Practical Suggestions for Multilateral Co-operation in Broadcasting".

Secretariat Address: Broadcasting House, London, W.1, England.

RELIGIOUS BROADCASTING ORGANISATIONS

WORLD ASSOCIATION FOR CHRISTIAN COMMUNICATION
(formerly "World Association for Christian Broadcasting"), constituted at Oslo by the merger of the Coordinating Committee for Christian Broadcasting and the World Association for Christian Broadcasting in June 1968.
Purpose: "To provide a working fellowship of churches, agencies, organisations and individuals concerned with the use of communications media to proclaim the Christian Gospel in its relevance to life and with the role of these media as instruments for the development of a just society". (WACC Constitution.)
Addr: Edinburgh House, 2 Eaton Gate, London, S.W.1, England. **Cable:** WACHRIB.
Exec. Dir: Dr. Philip A. Johnson. Assoc. Dir: Rev. E. H. Robertson. Adm. Dir: Dr. J. E. McEldowney. Research Secr: The Rev. J. F. Poulton. Adm. Ass: Miss L. M. Walmsley. Pres: The Rev. F. R. Wilson, USA. First V.P: Dr. J. Ozinga, Netherlands. Treasurer: Kirchenrat R. Geisendörfer, Germany. Secr: The Rev. D. W. Kennedy-Bell, England. Committee Chmn: Dr. Everett Parker (Training), the Rev. Philip Potter (Church-related Communication), Dr. Hans Florin (Information and Programme Exchange).
Official Journal: In course of preparation.
Corporate Membership: Churches; council of churches; publication agencies; studios; broadcasting networks and stations; other bodies engaged in the production and dissemination of Christian material for mass communication.
Personal Membership: For those with a professional interest in communication and a personal interest in the aims of WACC.

WORLD COUNCIL OF CHURCHES
The Rev. C. Michael de Vries, Secretary for Radio and TV, Department of communication.
Addr: 150 Route de Ferney, 1211 Geneva 20, Switzerland.

LUTHERAN WORLD FEDERATION BROADC. SCE.
Gen. Dir: Rev. Sigurd Aske, PhD, 150 Route de Ferney, 1211 Geneva 20, Switzerland.

ROMAN CATHOLIC
Pontifical Commission for Social Communications.
Addr: Palazzo S. Carlo, Vatican City State. **Pres:** Archbishop of Laodicea in Syria the Most Rev. Martin J. O'Connor.

UNDA: Association catholique internationale pour la Radiodiffusion et la Télévision (International Organisation for Broadcasting and Television).
Protector: Bishop of Lausanne, Genève and Fribourg, Mgr. François Charrière, Fribourg, Switzerland.
Secretariat General: Rue de Romont 5, Case Postale 211, 1701 Fribourg, Switzerland. Secr. Gen: Dr. J. Schneuwly.
Administration Council: Consists of 12 members.
Pres: R. Fr. Andrew, Hatch End, England, Consultative status of UNESCO.
Secretariat for Latin America: 475 Cerrito, Montevideo. Dir: R. Fr. Manuel Olivera, Uruguay.
Members of the Organisation:
Ordinary Members: Argentina, Australia, Austria, Belgium, Bolivia, Brazil, Canada (English and French speaking sections), Cameroons, Ceylon, Chile, Dominican Rep, Ecuador, England, France, Germany, India, Indonesia, Ireland, Italy, Japan, Kenya, Luxembourg, Malagasy Rep, Malta, Mexico, Netherlands, New Zealand, Nicaragua, Nigeria, Philippines, Portugal, Rhodesia, Switzerland, Taiwan, Tanzania, Thailand, Trinidad and Tobago, Uruguay, Vatican State, Venezuela, Vietnam.
Extraordinary members: Denmark, Sweden, Curacao, Haiti, Guadeloupe, Martinique, Panama, Costa Rica, Honduras, Guatemala, El Salvador, Puerto Rico, Colombia, Peru, Paraguay, St. Lucia, French Guiana, Zambia, Burundi, Congo (Kinshasa), Congo (Brazzaville), Ivory Coast, Central African Rep, Dahomey, Upper Volta, Rwanda, Sénégal, Togo, Afars and Issas, Réunion, New Caledonia, Algeria, South Africa Rep, Ceylon, Hong Kong, Micronesia, Australian New Guinea.
Corresponding members: Finland, Norway, Surinam, Greece, Egypt, Morocco, Tunisia, Angola, Mozambique, Lesotho, Tasmania, Pakistan, Lebanon, Iraq.
UNDA-Revue: French and English.

continued on page 22

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21465 kc — 13.98m
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RADIO AMMAN 7155 kc — 41.92m
Saturday 20.15 — 20.45 GMT

MALDIVE ISLAND
MIBS 4740 kc — 61m
Saturday 16.30 — 17.30 GMT

SANTO DOMINGO, DOMINICAN REPUBLIC
HISD 9505 kc — 31m
6090 kc — 49m
3215 kc — 90m
Daily 20.00 — 21.00 GMT

PARAMARIBO, SURINAM
RADIO SURINAM — 725 kc
Sunday 11.30 — 12.30 GMT

LISBOA, PORTUGAL
RADIO MIRAMAR 782 kc — 383m
Sunday 05.30 — 06.00 GMT

Continued from page 20

RELIGIOUS SOCIETIES PROTESTANT

Radio Committee of the Evangelical Missionary Alliance (ERA). **Addr:** 30 Bedford Place, London W.C.1, England. Chmn: Douglas P. Malton.

Radio Worldwide, 13 Harold Rd, London S.E.19, England. Dir: Philip A. Booth. Intern. Secr: Leonard C. Moules.

IBRA Radio Mission, Box 821, 101-31 Stockholm 1, Sweden.

IBRA Radio Federation is an intern. fed. for listeners. (See Sweden.)

IKOR (Radio and TV Committee of Churches in the Netherlands): Borneolaan 27, Hilversum.

NCRV: Nederlandse Christelijke Radio Vereniging, Schuttersweg 8, Hilversum.

NOREA: Nordic Radio Evangelistic Association in connection with Norwegian Lutheran Mission. Cooperation with Trans World Radio, Monaco; Broadcasting over R. Monte Carlo (see Norway and Finland).

Radio Réveil et Paroles de Vie: Action Chrétienne par la Radio et la Presse, 2022 Bevaix (NE), Switzerland.

AFRICA:

CENTAVEP: Centres des Techniques Audio-Visuelles de l'Eglise Presbytérienne Camerounaise, B.P. 187, Yaounde, Rép. Fédérale du Cameroun. Dir: D. Ako'o (is owned by the Cameroun Presbyterian Church, but helps the other Protestant Churches of the Federation) Service radiophonique de la Fédération protestante. (same address). Dir: A. Pache. (Works in connection with the National Radio and "Radio Voice of the Gospel" in Addis Ababa.)

AMERICA:

Trans-World Radio: Home Office, Box 98, Chatham, N.J, USA. Pres: Dr. Paul E. Freed (operates two radio stations in Monte Carlo, Monaco, and Bonaire, Netherlands Antilles).

National Religious Broadcasters, Inc, an association of protestant national and international broadcasters on radio and TV.

National Office: Dr. B. L. Armstrong, Exec. Sec, Box 308, Madison, N.J. 07940. Pres: Dr. E. R. Bertermann, 2185 Hampton Ave, St. Louis, Mo. 63139.

NRB comprises over 250 religious broadc. orgs. consisting of stations and program producers. Sponsors conventions on national and regional areas Eastern, South-Eastern, Midwest and Western Chapters.

International Christian Broadcasters, an international service org. for those who use radio and television to proclaim the Gospel, and to encourage the use of these mass media throughout the world for the furtherance of the Gospel, and to aid and strengthen the Christian Church worldwide through mass communications. Sponsors of national and inter-national conferences.

Membership may be granted to regional and national radio television orgs. or committees; Christian broadc. st's, recording studios and prgr. producers, and auxiliary org's; persons interested in radio and television as mass media to proclaim the Gospel.

Addr: 1111 Nicollet Ave, Minneapolis, Minnesota 55403. Pres: Richard Wolff. Exec. Dir: A. G. Thiessen.

Lutheran Television, producing agency of The Lutheran Church-Missouri Synod for television prgr's for national and international distribution on a syndicated basis. Presently producing and distributing "This is the Life". Exec. Dir: Dr. Martin J. Neeb, Jr. Prgr. Dir: Herman W. Gockel, 210 N. Broadway, St. Louis, Missouri 63102, USA.

Difusiones Inter Americanas (DIA): An evangelical organization, established to produce, process, distribute and promote radio and TV prgr's, recordings and audio visual aids for the evangelizing of Latin America.

Addr: Apt. 2470, San José, Costa Rica. **Te:** 213952. **Cable:** Difinter.

Latin American Mission, 285 Orchard Terrace, Bogota, N.J. and Apt. 1307, San José, Costa Rica. Publ: "Radio Headlines".

Central American Mission (operates TGNA, Gautemala City and TGBA, Barillas, Gautemala).

Addr: Box 28005, Dallas, Texas 75228, USA.

Centro Audio-Visual Evangelico (CAVE) produces and distributes religious, educational and cultural audio-visual material, non projected aids, filmstrips, slides, projectors, LP records, radio prgr's as well as dubbing of TV Films in Portuguese. Studios and filming laboratories are made available to other organizations upon request. Gen. Secr: Dr. William E. Haney, C.P. 943, Campinas, São Paulo, Brazil. Person available to conduct training seminars and workshops for groups interested in audio-visual-radio work.

Associação Brasileira De Radios Evangelicas (ABRE) ABRE is an association of Evangelically owned and operated broadc. st's and recording studios throughout Brazil. It provides consultation in the areas of programming, engineering, administration, etc, to its members. Consulting Coordinator: William E. Haney, C.P. 224, Campinas, São Paulo, Brazil.

The Evangelical Alliance Mission, P.O. Box 969, Wheaton, Ill. 60187, USA. Gen. Dir: V. Mortenson. Operates HLKX, Inchon, Rep. of Korea, PJA-6, Aruba, Netherlands Antilles, OAZ, Lima, Peru.

The Gospel Missionary Union: Headquarters, Smitville, Mo, USA. Pres: R. J. Rainmiller. Publ: Gospel Message.

West Indies Mission: P.O. Box 39, Coral Gables, Fla. 33134, USA. Dir. Gen: Rev. J. Allen Thompson. Dir. of Radio Haiti Field: Rev. David Hartt. Publ: "The Whitened Harvest". Is working in the West Indies and in South America.

Broadcasting and Film Commission, NCCUSA, New York, USA. National Council of Churches of Christ in the USA, 475 Riverside Drive, New York 10027. Exec. Dir: W. F. Fore.

RAVEMCCO, New York, USA: Radio, Visual, Education and Mass Communication Committee of the Division of Overseas Ministries of the National Council of the Churches of Christ in the USA, 475 Riverside Drive, New York, N.Y. 10027. Dir: Dr. B. M. Luben.

Far East Broadcasting Co. Inc, P.O. Box 1, Whittier, Calif. Pres: Robert H. Bowman. Private Comp. with offices in 12 countries. Publ: "FEBC Broadcaster" monthly *Operates st's in Manila, Cotabato, Jolo (Philippines),* Naha (Okinawa), San Francisco (USA) and Seychelles.

The Lutheran Hour "Bringing Christ to Nations", St. Louis, USA. Sponsored by the Lutheran Laymen's League, 2185 Hampton Ave, St. Louis, Missouri 63139. Exec. Dir: Eugene R. Bertermann.

The Oriental Missionary Society and **the Inter American Missionary Society,** P.O. Box A, Greenwood, Indiana 46142, USA. Pres: Dr. Wesley Duewel. Dir. Haiti Field incl. allied missionary activities: Wm. A. Gillam, Box 1, Cap Haitien, Haiti. Operates St: 4VEH, Cap Haitien.

World Radio Missionary Fellowship: HCJB-TV, Quito, Ecuador; HOXO, Panama. Pres: Abe Van der Puy, P.O. Box 691, Miami, Fla. 33054. USA. (Operates La Voz de los Andes, HCJB, Ecuador); No. American Headquarters: P.O. Box 691, Miami, Fla. 33054, USA.

Canadian Baptist Foreign Mission Board, 217 St. George St, Toronto 5, Ont, Canada. Gen. Secr: Dr. O. E. Daniel. Operates R. La Cruz del Sur, La Paz, Bolivia.

ASIA AND PACIFIC:

The Near East Council of Churches, P.O. Box 5376, Beirut, Lebanon. Rev. Albert Isteero, Gen. Secr; Y. I. Hourani, Arabic Prgr; Dir: E. Shahmardian, Exec. Dir. Persian Prgr. (P.O. Box 1505, Tehran, Iran).

Christian Broadcasting Association, 420 Lyons Rd, Five Dock, Sydney, NSW, Australia 2046. Man. Dir: Rev. V. Turner, Radio prgr. production on behalf of Protestant Churches.

Pacific Broadc. Ass, GPO Box 1000, Tokyo, Japan. Chmn. of Board of Dir's: A. Hatori. Gen. Dir: A. Seely. Mgr: B. Hoiritz.

Addr: Metropole Bldg, 57 Peking Road, 3/F Hong Kong; Sec. 2, Chung-Shan North Road, Taipei, Taiwan.

Transmitter: 50kW, bandswitching, with log periodic antenna, at Bulacan, Philippines.

Broadcasting and Audio Visual Aids Committee of the East Asia Christian Conference (BAVACO)

4-13 Shibuya 4-chome, Shibuya-Ky, Tokyo 150-19, Japan. Secr: M. S. Ogawa.

Audio Visual Evangelism Committee of Hong Kong Christian Council (member of World Association of Christian Communication) Providing Visual Aids and Broadcasting services for related churches.

Addr: 57 Peking Road, 3/F1, Kowloon/Hong Kong. Exec. Dir: Thomas W. Lung.

Mascom Network (MCM): Head Office: P.O. Box 4148, Manila, Philippines. Exec. Dir: J. W. Matthews. St. Mgr: B. Magdamo. Operates Stations DYSR/DYCR/DYB4, Dumaguete City. St. Mgr: Juan Pia, Jr. Operates stations DZCH-AM/DZCH-FM, Manila.

South East Asia Radio Voice.

Addr: P.O. Box 4148, Manila, Philippines. Cable: Interchurch. Exec. Dir: Constantino E. Bernardez. **Fi:** Operations underwritten by Protestant Church affiliated with the World Association of Christian Communication.

Production Studios: 10 Salemba, Djakarta IV/3, Indonesia; 82nd Street, Mandalay, Burma; 14 Pramuan Rd, Bangkok, Thailand; 57 Peking Rd, Kowloon, Hong Kong; 114-1 Sec. 1 Hsin Sheng South Rd, Taipei, Taiwan.

continued on page 23

RECORDED MUSIC LIBRARIES

Most Recorded Music Libraries operating in England supply Recorded Music, often specially commissioned, generally of varied character (although some may specialise) and designed especially to meet the needs of programme producers in the fields of television, film and radio. Recordings are usually available on disc (either specially-produced 78 r.p.m. for facility of groove location, or microgroove) although ¼-in. tape versions at 7½ and 15 i.p.s. full track are often available by arrangement and some two-track stereo may be offered.

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Chappell & Co, 68-70 Clarence St, Sydney.
W. H. Paling (Pty) Ltd, 338 George St, Sydney.
Allans Music (Australia) Pty. Ltd, P.O. Box 513J, Melbourne C.1.
Essex Music of Australia (Pty) Ltd, 32-34 York St, Sydney, NSW 2000.
J. Albert & Son Pty. Ltd, 137-139 King St, Sydney, NSW.
Southern Music Publishing Co. Ltd, 38-40 York St, Sydney, NSW.

AUSTRIA
Ludwig Doblinger, 10 Dorotheergasse, A-1010, Wien 1
Joseph Weinberger GmbH, Mahlestrasse 11, Wien I.
Wien Melodi, Mahlerstrasse 11, Wien 1.
Southern Music, GmbH, Seilergasse 12, Wien.

ARGENTINA
Editorial Argentina de Musica Internacional, Lavalle 1494, Buenos Aires.

BRAZIL
Editora De Musica Brasileira e. Internacional S.A, Av. Almirante Barroso 91, Rio de Janeiro.

CHILE
Southern Music Internacional, Calle Lirios 374, Santiago de Chile.

BELGIUM
Telefilm Service, 28 Rue Lefbroussart, Bruxelles.
Primavera, 22 Blvd. Maurice Lemonnier, Bruxelles.
Editions Francis Day S.A, 25 Place Saint-Gery, Bruxelles.
P. M. Belgolux, 13 Rue de la Madeleine, Bruxelles.
Southern Music S.A, 13, Rue de la Madeleine, Bruxelles.

CANADA
Boosey & Hawkes (Canada) Ltd, 109-213, Victoria St, Toronto, Ont.
Chappell & Co. Ltd, 14 Birch Ave, Toronto, Ont.
Canadian Music Sales Corporation Ltd, 58 Advance Rd, Toronto 18, Ont.
Southern Music Publishing Co. Ltd, 1405 Bishop St, Montreal.

DENMARK
Metronome Records, Vibevej 31, 2400 Copenhagen NV.
Viggo Petersen, Jenslev, 4070 Kirke-Hyllinge.

FINLAND
Felix Filmi OY, Toolontorikatu 7a, 2 Helsinki 26.

ENGLAND
Airborne Music Ltd, 26-27 D'Arblay St, London W.1.
Berry Music Co. Ltd, 10 Denmark St, London W.C.2.
Boosey & Hawkes Music Publishers Ltd, P.O. Box 1 BR, London W.1.
Bosworth & Co, Ltd, 14-18 Heddon St, London W.1.
Chappell Recorded Music Library, 50 New Bond St, London W.1.
Charles Brull Ltd, 100 St. Martin's Lane, London W.C.2.
Chandos (Recordings) Ltd, 41 Charing Cross Rd, London W.C.2.
Contact Music Ltd, 23 Denmark St, London W.C.2.
Messrs. De Wolfe, 80-82 Wardour St, London W.1.
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Fred Benson Ltd, 10-16 Rathbone St, London, W.1.
Programme Music Ltd, 10-16 Rathbone St, London, W.1.
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Scroll Recorded Music, 55 Ray Gardens, Newbury Park, Essex.
Southern Library of Recorded Music Ltd, 8 Denmark St, London W.C.2.
Latin American Music Publishing Co. Ltd, 8 Denmark St, London W.C.2.
Studio G, 195 Wardour St, London W.1.
Synchro Recorded Music Library Ltd, 21 Park Rd, London S.W.13.
Vivo Music Ltd, 8 Spring Lake, Stanmore Hill, Stanmore, Middx.
E.M.I. Records Ltd, Commercial Dept, Room 251A, 20 Manchester Sq, London W.1.

FRANCE
L'illustration Musicale, 35 Blvd. Malesherbes, Paris 8.
Boosey & Hawkes S.A, 4 rue Drouot, Paris 9.
Chappell S.A, 4 Rue D'Argenson, Paris 8.
Editions Charles Brull, 18 Rue de Provence, Paris 9.
Musique Pour L'image, 77 rue de Fraubourg, St. Martin, Paris Xè.
Editions Musicales 707, 44 Rue de Miromesnil, Paris 8.
Publications Francis-Day, 5 Avenue de l'Opera, Paris 1.
Roger Roger, Le Petit Bois, 76 Jouy-en-Josas.
Editions Salabert, Paris.

GERMANY
Chappell & Co. GmbH, Sendlinger Tor Platz 10, 8 München 2.
Oktave Musik Verlag, 2 Hamburg 22, Adolfstrasse 45.
Metronome Records GmbH, Heidenkampsweg 76b, Hamburg 1.
Hans Wewerka Musikverlag, Franz-Josef-Strasse 2, 8 München 13.
Francis Day & Hunter GmbH, Mittelweg 149, Frankfurt-am-Main.
Josef Weinberger GmbH, Oederweg 26, Frankfurt-am-Main.
Ring Musik, Oederweg 26, Frankfurt-am-Main.
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Edition Moderne, München 19, Walhall Str. 7.
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A MESSAGE FROM THE EDITOR

Once again we are happy to present a new and extended issue of the World Radio-TV Handbook — the 24th edition — updated with the advice of specialists and consultants in the field of international radio and television.

It has been our aim with this edition to provide everyone with a complete guide on which to start or continue listening to shortwave and mediumwave broadcasts from foreign countries and thus create the possibility for a better international understanding.

As a matter of fact the wealth of information from the steadily increasing number of radio and television stations is expanding rapidly from year to year and in order to be able to include all station details in future editions we have to inform you that from now on articles will be transferred to our other publication "How to Listen to the World".

I want herewith to thank **all** those who have made valuable contributions to this edition — broadcasting and television organisations, advertisers, radio clubs, DX-ers as well as other individuals.

A special thank to those members of the Arctic Radio Club of Sweden, and the Danish Shortwave Club International, who have assisted me by the updating of this edition.

J. M. Frost.

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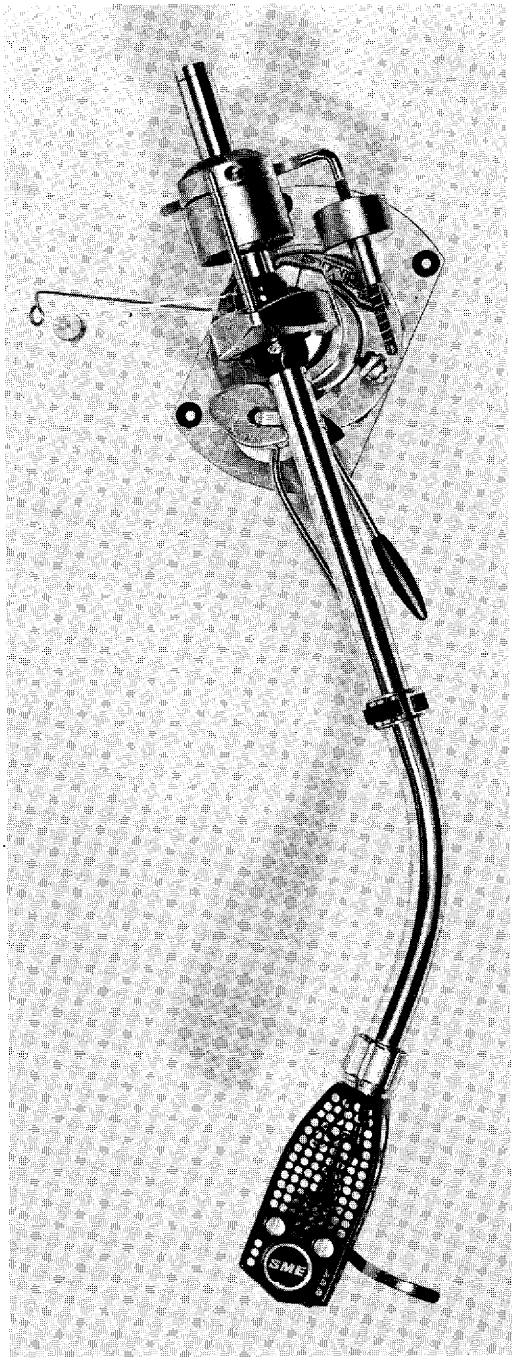

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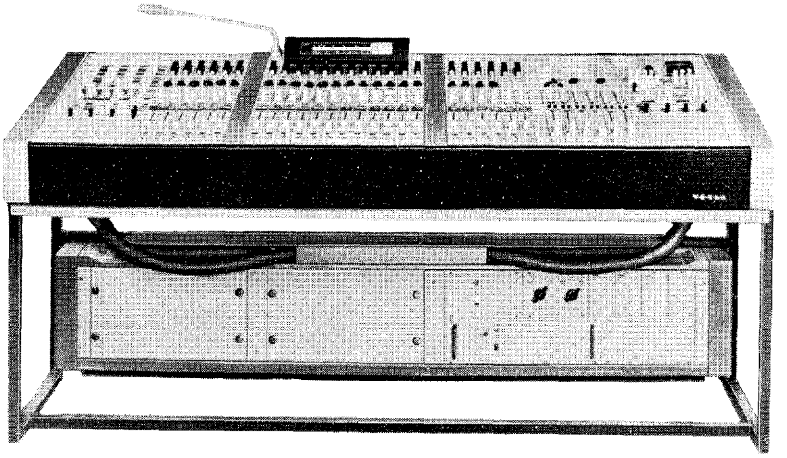

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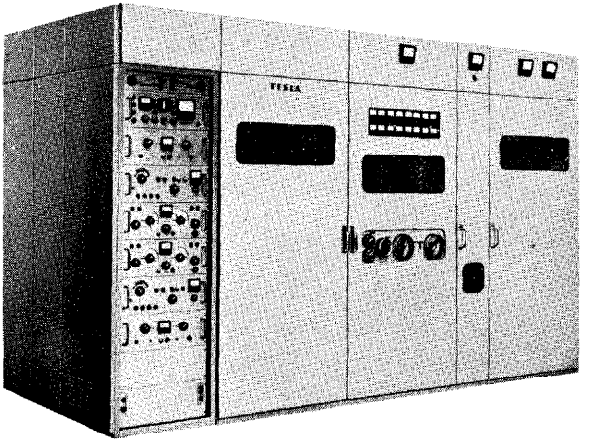

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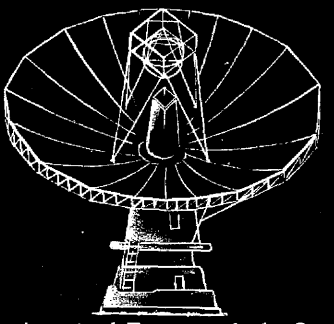

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GEVAERT

For detailed information :
GEVAERT-AGFA N.V., MORTSEL-BELGIUM

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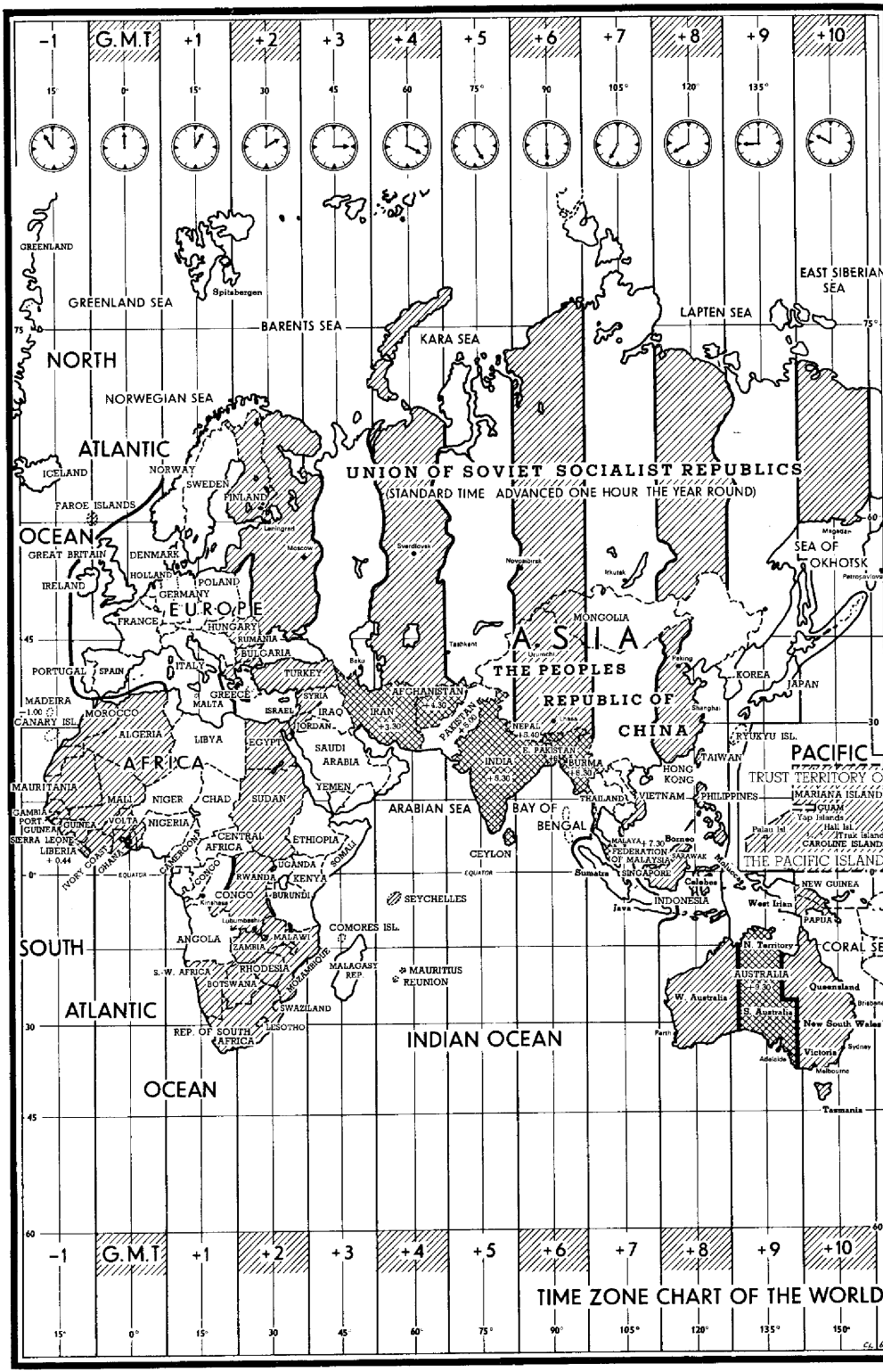
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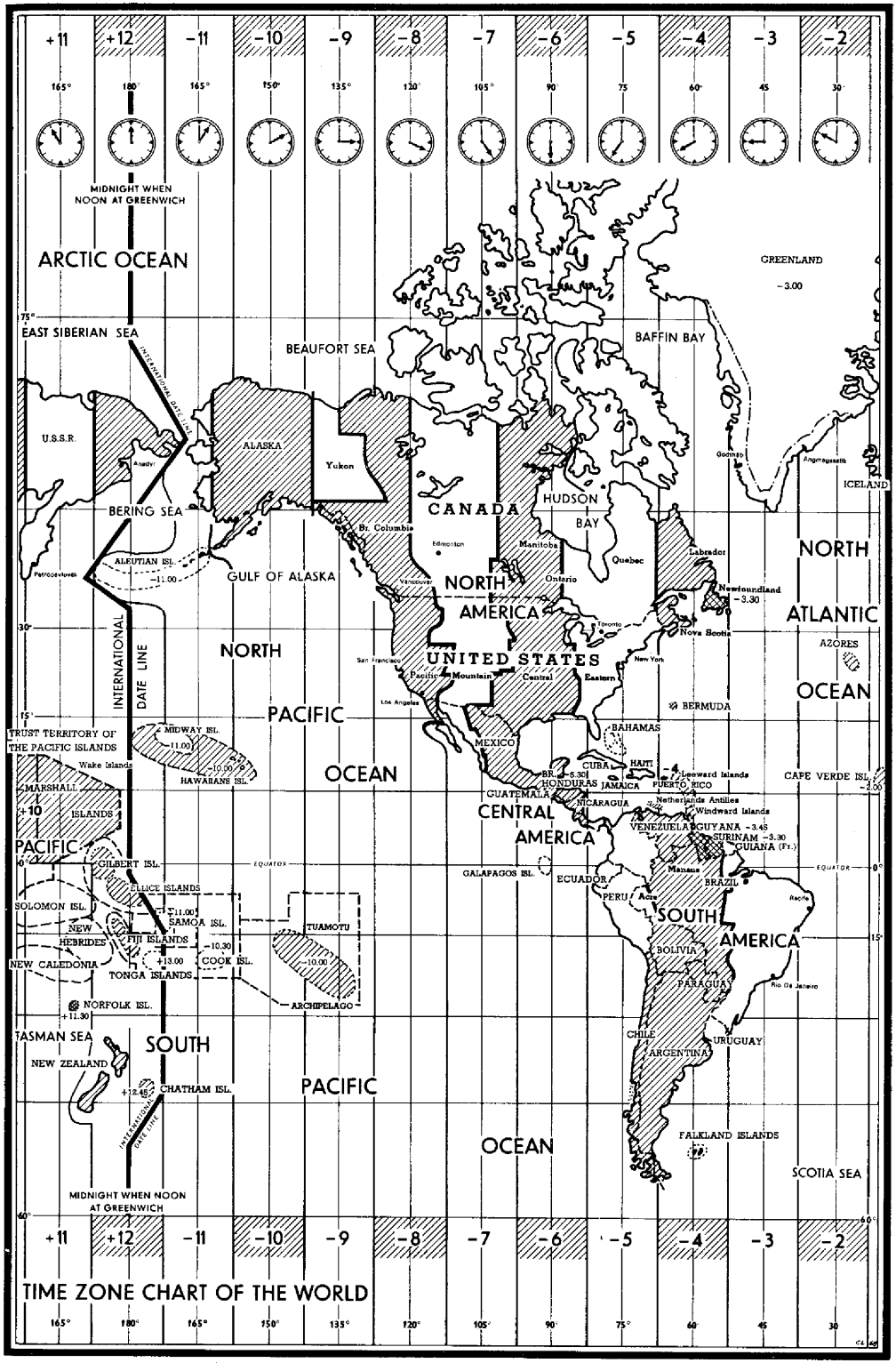
GREENLAND
GREENLAND SEA
Spitsbergen
BARENTS SEA
KARA SEA
LAPTEV SEA
EAST SIBERIAN SEA
NORTH
ATLANTIC
OCEAN
NORWEGIAN SEA
ICELAND
NORWAY
SWEDEN
FINLAND
FAROE ISLANDS
UNION OF SOVIET SOCIALIST REPUBLICS
(STANDARD TIME ADVANCED ONE HOUR THE YEAR ROUND)
GREAT BRITAIN
DENMARK
HOLLAND
POLAND
GERMANY
IRELAND
EUROPE
FRANCE
HUNGARY
RUMANIA
BULGARIA
PORTUGAL
SPAIN
ITALY
TURKEY
GREECE
MALTA
MADEIRA
CANARY ISL.
MOROCCO
ALGERIA
LIBYA
EGYPT
AFRICA
SYRIA
ISRAEL
IRAQ
JORDAN
SAUDI ARABIA
YEMEN
ASIA
MONGOLIA
AFGHANISTAN
IRAN
PAKISTAN
THE PEOPLES REPUBLIC OF CHINA
NEPAL
E. PAKISTAN
INDIA
BURMA
KOREA
JAPAN
RYUKYU ISL.
TAIWAN
PACIFIC
HONG KONG
PHILIPPINES
VIETNAM
THAILAND
TRUST TERRITORY OF MARIANA ISLANDS
GUAM
Yap Islands
Palau Isl
Truk Islands
CAROLINE ISLANDS
THE PACIFIC ISLANDS
MAURITANIA
MALI
NIGER
CHAD
SUDAN
GAMBIA
PORT GUINEA
GUINEA
SIERRA LEONE
LIBERIA
VOLTA
NIGERIA
IVORY COAST
GHANA
CAMEROON
CENTRAL AFRICA
ETHIOPIA
SOMALI
UGANDA
KENYA
RWANDA
BURUNDI
CONGO
EQUATOR
ARABIAN SEA
BAY OF BENGAL
CEYLON
SEYCHELLES
COMORES ISL.
MAURITIUS
REUNION
MALAGASY REP.
SOUTH
ATLANTIC
OCEAN
ANGOLA
ZAMBIA
MALAWI
RHODESIA
S.W. AFRICA
BOTSWANA
MOZAMBIQUE
SWAZILAND
LESOTHO
REP. OF SOUTH AFRICA
INDIAN OCEAN
Sumatra
Java
Celebes
Borneo
MALAYA FEDERATION OF MALAYSIA
SARAWAK
SINGAPORE
INDONESIA
NEW GUINEA
West Irian
PAPUA
CORAL SEA
AUSTRALIA
N. Territory
W. Australia
S. Australia
Queensland
New South Wales
Victoria
Tasmania
Darwin
Perth
Adelaide
Melbourne
Sydney
Brisbane
SEA OF OKHOTSK
TIME ZONE CHART OF THE WORLD


+11
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-3
-2
MIDNIGHT WHEN NOON AT GREENWICH
ARCTIC OCEAN
GREENLAND
-3.00
EAST SIBERIAN SEA
BEAUFORT SEA
BAFFIN BAY
INTERNATIONAL DATE LINE
U.S.S.R.
ALASKA
Yukon
CANADA
HUDSON BAY
ICELAND
BERING SEA
Br. Columbia
Manitoba
Labrador
NORTH ATLANTIC OCEAN
ALEUTIAN ISL.
-11.00
GULF OF ALASKA
NORTH AMERICA
Ontario
Quebec
Newfoundland
-3.30
Nova Scotia
AZORES
UNITED STATES
NORTH PACIFIC OCEAN
BERMUDA
BAHAMAS
MEXICO
CUBA
HAITI
PUERTO RICO
Leeward Islands
Windward Islands
CAPE VERDE ISL.
-2.00
TRUST TERRITORY OF THE PACIFIC ISLANDS
MIDWAY ISL.
-11.00
Wake Islands
-10.00
HAWAIIAN ISL.
MARSHALL ISLANDS
+10
GUATEMALA
HONDURAS
-5.30
JAMAICA
NICARAGUA
Netherlands Antilles
VENEZUELA
GUYANA -3.45
SURINAM -3.30
GULANA (Fr.)
CENTRAL AMERICA
PACIFIC OCEAN
GILBERT ISL.
EQUATOR
GALAPAGOS ISL.
ECUADOR
PERU
BRAZIL
Manaus
Acre
Recife
SOLOMON ISL.
ELLICE ISLANDS
+11.00
SAMOA ISL.
TUAMOTU ARCHIPELAGO
NEW HEBRIDES
FIJI ISLANDS
-10.30
SOUTH AMERICA
NEW CALEDONIA
+12.00
COOK ISL.
-10.00
TONGA ISLANDS
BOLIVIA
PARAGUAY
Rio De Janeiro
NORFOLK ISL.
+11.30
CHILE
URUGUAY
ARGENTINA
TASMAN SEA
SOUTH PACIFIC OCEAN
NEW ZEALAND
+12.45
CHATHAM ISL.
FALKLAND ISLANDS
SCOTIA SEA
MIDNIGHT WHEN NOON AT GREENWICH
TIME ZONE CHART OF THE WORLD

WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead the G.M.T. Differences marked — indicate the number of hours behind G.M.T.

	Normal Time	Summer Time
Aden	+3	+3
Afars & Issas	+3	+3
Afghanistan	+4½	+4½
Alaska[1]	−8	−8
Albania	+1	+1
Algeria	GMT	GMT
Andorra	+1	+1
Angola	+1	+1
Argentina	−4	−3
	(Oct-March)	
Ascension Isl.	GMT	GMT
Australia		
a) Victoria		
New South Wales, Queensland	+10	+10
Tasmania	+10	+11
b) N. Territory, S. Australia	+9½	+9½
c) W. Australia	+8	+8
Austria	+1	+1
Azores	−1	−1
Bahamas	−5	−5
Bahrain	+4	+4
Barbados(W.I.)	−4	−4
Belgium	+1	+1
Bermuda	−4	−4
Bolivia	−4	−4
Botswana	+2	+2
Brazil		
a) Eastern & Coastal	−3	−2a
b) Manaos	−4	−3a
c) Acre	−5	−4a
Brunei	+8	+8
Bulgaria	+2	+2
Burma	+6½	+6½
Burundi	+2	+2
Cambodia	+7	+7
Cameroon	+1	+1
Canada		
a) Newfndlnd.	−3½	−2½
b) Atlantic (Labrador, Nova Scotia)	−4	−3
c) Eastern (Ontario) Quebec*	−5	−4
d) Central (Manitoba)	−6	−5
(Alberta)	−7	−6
f) Pacific (Br. Columbia)	−8	−7
g) Yukon	−9	−8
Canary Isl.	GMT	GMT
Cape Verde Isl.	−2	−2
Central African Rep.	+1	+1
Ceylon	+5½	+5½
Chad	+1	+1
Chile	−4	−4
China		
People'sRep.	+8	+8
Shanghai	+8	+8
Canton	+8	+8
Lhasa	+6	+6
Urumchi	+6	+6
Taipei	+8	+9
Colombia	−5	−5
Comoro Isl.	+3	+3
Congo, Rep. Kinshasa	+1	+1
Lubumbashi	+2	+2
Congo (Brazzaville)	+1	+1
Cook Isl.	−10½	−10½
Costa Rica	−6	−6
Cuba (W.I.)	−5	−5
Curacao	−4	−4
Cyprus	+2	+2
Czechoslovakia	+1	+1
Dahomey	+1	+1
Denmark	+1	+1
Dom. Rep.	−5	−4
		(Oct-Jan)
Ecuador	−5	−5
Egypt	+2	+3
El Salvador	−6	−6
Ethiopia	+3	+3
Falkland Isl.	−4	−3
Faeroe Isl.	GMT	GMT
Fiji Islands	+12	+12
Finland	+2	+2
France	+1	+1
Gabon	+1	+1
Gambia	GMT	GMT
Germany	+1	+1
Ghana	GMT	GMT
Gibraltar	+1	+1
Gilbert Isl.	+12	+12
Great Britain	+1	+1
Greece	+2	+2
Greenland	−3	−3
Thule area	−4	−4
Guadeloupe	−4	−4
Guam	+10	+10
Guatemala	−6	−6
Guiana	−3¾	−3¾
Guiana(French)	−3	−3
Guinea	GMT	GMT
Guinea Equat.	+1	+1
Guinea (Port.)	−1	−1
Haiti (W.I.)	−5	−5
Hawaii	−10	−10
Holland	+1	+1
Honduras(Rep.)	−5	−6
Honduras(Brit.)	−6	−5½
Hong Kong	+8	+9
		(Apr-Oct)
Hungary	+1	+1
Iceland	−1	GMT
India	+5½	+5½
Indonesia		
a) Java, Sumatra	+7	+7
b) Borneo, Celebes, Bali	+8	+8
c) Moluccas, We. Irian	+9	+9
Iran (Persia)	+3½	+3½
Iraq	+3	+3
Ireland (Eire)	+1	+1
Israel	+2	+2
Italy	+1	+2
		(May-Sept)
Ivory Coast	GMT	GMT
Jamaica (W.I.)	−5	−5
Japan	+9	+9
Jordan	+2	+2
Kenya	+3	+3
Korea, Rep.	+9	+9
Korea, Dem. Rep.	+9	+9
Kuwait	+3	+3
Laos	+7	+7
Lebanon	+2	+2
Leeward Isl.	−4	−4
Lesotho	+2	+2
Liberia	−¼	−¼
Luxembourg	+1	+1
Libya	+2	+2
Lord Howe Isl.	+11	+11
Macao	+8	+8
Madeira	GMT	GMT
Malawi	+2	+2
Malaysia	+7½	+7½
Malagasy Rep.	+3	+3
Maldive Isl.	+5½	+5½
Mali	GMT	GMT
Mauritania	GMT	GMT
Malta	+1	+1
Marianas	+10	+10
Marshall Isl.	+12	+12
Martinique	−4	−4
Mauritius	+4	+4
Mexico[2]	−6	−6
Monaco	+1	+1
Mongolia	+8	+8
Morocco	GMT	GMT
Mozambique	+2	+2
Nauru	+11½	+11½
Nepal	+5.40	+5.40
Neth. Antilles	−4	−4
New Caledonia	+11	+11
New Guinea	+10	+10
New Hebrides	+11	+11
New Zealand	+12	+12
Nicaragua	−6	−6
Niger	+1	+1
Nigeria	+1	+1
Niüe	−11	−11
Norfolk Isl.	+11½	+11½
Norway	+1	+1
Oman	+4	+4
Pakistan		
a) West	+5	+5
b) East	+6	+6
Palau	+9	+9
Panama	−5	−5
Papua	+10	+10
Paraguay	−4	−4
Peru	−5	−5
Philippines	+8	+8
Poland	+1	+1
Ponape	+11	+11
Portugal	+1	+1
Puerto Rico (W.I.)	−4	−4
Qatar	+4	+4
Reunion	+4	+4
Rhodesia	+2	+2
Rumania	+2	+2
Rwanda	+2	+2
Ryukyu Isl.	+9	+9
Sabah	+8	+8
Sahara (Sp.)	GMT	GMT
Samoa Isl.	−11	−11
S. Pierre	−3	−3
S. Tomé	GMT	GMT
Sarawak	+8	+8
Saudi Arabia	+3[3]	+3[3]
Senegal	GMT	GMT
Seychelles	+4	+4
Sharjah	+4	+4
Sierra Leone	GMT	GMT
Singapore	+7½	+7½
Solomon Isl.	+11	+11
Somalia	+3	+3
So. Africa	+2	+2
So. Yemen	+3	+3
Spain	+1	+1
Sudan	+2	+2
Surinam	−3¼	−3¼
Swaziland	+2	+2
Sweden	+1	+1
Switzerland	+1	+1
Syria	+2	+3
Tahiti	−10	−10
Tanzania	+3	+3
Tasmania	+10	+11
Thailand	+7	+7
Timor	+8	+8
Togo	GMT	GMT
Tonga Islands	+13	+13
Trinidad (B.W.I.)	−4	−4
Truk	+10	+10
Tunisia	+1	+1
Turk & Caicos Isl.	−5	−5
Turkey	+2	+2
Uganda	+3	+3
Upper Volta	GMT	GMT
Uruguay	−3	−3
U.S.S.R.		
Moscow, Leningrad	+3	+3
Baku	+4	+4
Sverdlovsk	+5	+5
Tashkent	+6	+6
Novosibirsk	+7	+7
Irkutsk	+8	+8
Yakutsk	+9	+9
Khabarovsk	+10	+10
Magadan	+11	+11
Petropavlovsk	+12	+12
Anadyr	+13	+13
U.S.A.		
a) Eastern Zone	−5	−4
b) Central Zone	−6	−5
c) Mountain Zone	−7	−6
d) Pacific Zone	−8	−7
Vatican	+1	+1
Venezuela	−4	−4
Vietnam(Rep.)	+8	+8
Vietnam (Dem. Rep.)	+7	+7
Virgin Isl.	−4	−4
West Papua	+9½	+9½
Windward Isl.	−4	−4
Yap	+10	+10
Yemen	+3	+3
Yugoslavia	+1	+1
Zambia	+2	+2

1)a) Ketchikan to Skagway — 8
b) Skagway to 141°W. long — −9
c) 140°W. long to 162°W. long — −10
d) 162°W. long to Westernmost point (incl. Aleutians) — −11
2) Generally — −6
Lower Cal. Pa. coast — −7
No. part — −8
3) Approx. (based on Sun Time)

*exc. the watch shore and Gaspe regions: 5 h behind G.M.T. a) Dec-March.

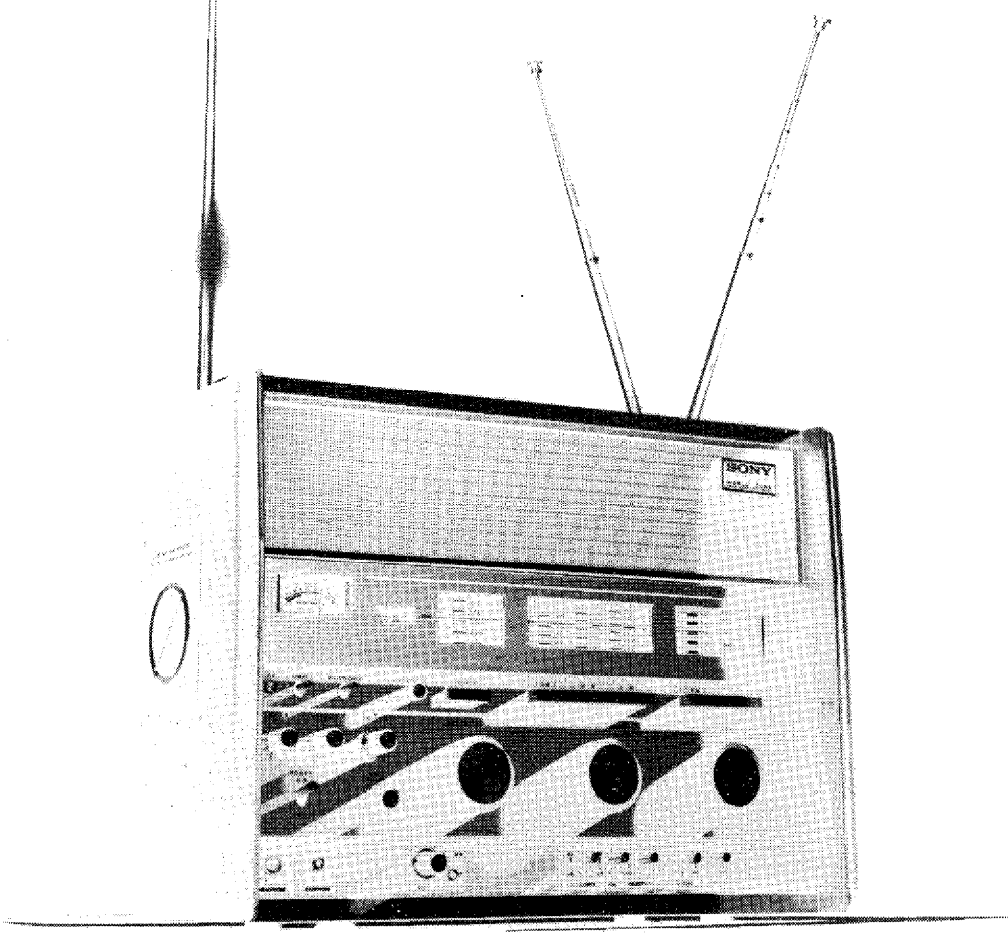
The Best Imperfect Radio!

We don't claim the fantastic SONY CRF-230 is absolutely perfect. But this technological masterpiece is closer to perfection than any other radio anywhere in the world today! For example: a good receiver ordinarily has 4 bands. The SONY CRF-230 has 23 bands! The only radio to cover every station in every nation on earth!

Most people know that SONY transistor technology is just about unequalled. And now SONY has drawn upon its more than one decade of experience to create the finest receiver possible. So exceptional and complete are the specifications of this ultimate receiver, it would take more than two full pages of this magazine simply to list them! Frankly, we do not know of a single refinement or feature that this marvel does not have. For example: 4 antennae systems built-in, 3 FET's, 27 transistors for reception, 18 for Aux. functions, 32 diodes, 1 thermistor, and...the best thing is to see and hear this marvel of marvels at your SONY dealer soon.

SONY's CRF-230: The most incredible radio in the world today!

Research Makes The Difference
SONY®



SONY CORPORATION 7-35 Kitashinagawa 6-chome, Shinagawa-ku, Tokyo, Japan/**SONY CORPORATION OF AMERICA** 47-47 Van-Dam St., Long Island City, New York 11101/**SONY OVERSEAS S.A.** Baarerstrasse 73, Zug, Switzerland

INTERNATIONAL FILM TV-FILM AND DOCUMENTARY MARKET

APRIL and OCTOBER

MIFED, the International Film, TVfilm and Documentary Market, is an international centre where feature, TV and documentary films are traded on a worldwide scale. Contacts are made there for negotiating agreements in any branch of film production, co-production, financing and the issue of import and export licences.
MIFED headquarters, which are equipped with all modern facilities and comforts, contain numerous rooms for the projection of cinema and TV films. International cable, telephone, telex and telefoto facilities are available. Also conference rooms, offices, dining rooms and bars. Medical assistance on the premises.

2 GRAND AWARDS FOR TELEFILMS

MIFED is held in Milan twice a year: in APRIL to coincide with the Milan Fair, and in OCTOBER.

MIFED

For information and bookings write to:
MIFED - Largo Domodossola 1 - 20145 Milano (Italy)
Telegrams: MIFED - Milano

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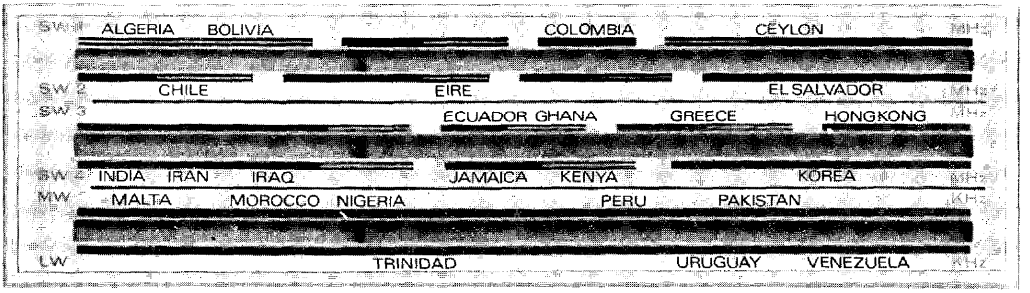
THE PYE ENTREPRENEUR'S DIAL



These aren't stations. They are areas where Pye are helping local businessmen to assemble and sell radio and television. We call it the Pye Assembly Franchise Plan.

This plan :—

1. Selects the entrepreneur.
2. Surveys the market.
3. Helps to set up factory and production facilities.
4. Supplies engineers and technical know-how.
5. Assists in credit arrangements.
6. Supplies materials and component parts.
7. Assists with selection and training of staff.
8. Gives guidance on marketing and permits the entrepreneur to market the parts or products under a local name or the famous Pye banner.

The Pye Assembly Franchise Plan began in 1954. It is a separate entity with its own staff and its own factory. Franchise holders have the convenience of dealing with a compact unit plus the confidence of knowing there are vast technical resources in the background, with experienced technical engineers to back the plan.

Flexibility

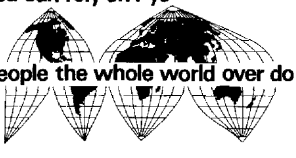
The plan is kept completely flexible to meet local economic conditions and tastes. Orders range from parts for 500 receivers to from one thousand to ten thousand ready-to-assemble TV receivers. Designs range from the most basic to the most sophisticated. Another look at the markets on the Entrepreneur's Dial will give you an indication of some of the competitive experience we have gained in the field during the past 15 years. Enterprising technicians and businessmen in these markets have proved the success of this plan. It now accounts for nearly 50% of all Pye Radio and TV exports. And its growing.

If you are visiting the U.K. in the near future, you are invited to look round our Overseas Assembly factory at Lowestoft, England. It's the ideal place to discuss the technical know-how and staff training programmes mentioned earlier.

Your First Step

If you would like to know more about the Pye Assembly Franchise Plan, please write to the Export Director or telephone him (reversing the charges) from anywhere in the world! He and his team have 15 years of experience in answering the questions that are probably going through your mind.

You can rely on Pye



Pye Group (Radio & Television) Ltd.,
P.O. Box 49, Cambridge, CB4 1DS, England.
Telephone No. Cambridge 58985
Telex Pyrad 81105.

STANDARD FREQUENCY & TIME SIGNAL STATIONS

The ordinary sw-listener soon notices a specialized technical prgr. of tones and time pulses usually received on carrier freq's of 2.5, 5, 10 or 15MHz and sometimes on 20 and 25MHz, if he listens in that part of the spectrum. These signals have many uses in science and technology. They are most useful to the non-specialist in obtaining accurate time, in checking the calibration of his radio receiver, and in gaining information on radio propagation conditions. The forecasts of the present and future state of the ionosphere can be quite useful in determining the possibilities of sw-reception. The forecasts are given by WWV and JJY for certain parts of the globe.

R. STN. WWV, WWVH, WWVB and WWVL (Gov.)
St. WWV, Box 83-E, Route 2, Fort Collins, Colorado 80521, USA; St. WWVH, Box 578, Puunene, Maui, Hawaii; WWVB/WWVL, Box 83-E, Route 2, Ft. Collins, Colo, USA — **L.P:** Chief Freq. and Time Broadc. Sce's: Peter P. Viezbicke. National Bureau of Standards, Boulder, Colo. 80302. Eng. in Charge: John T. Stanley (WWV, WWVB and WWVL); Eng. in Charge: S. Katahara (WWVH).

Standard Radio Frequencies:
WWV 2500kHz 2.5kW, 5000kHz 10kW, 10000kHz 10kW, 15000kHz 10kW, 20000kHz 2.5kW, 25000kHz 2.5kW; The broadcs. are continuous, night and day, exc. from 45 min 15 sec to 49 min 15 sec past each h — WWVH 2500kHz 1kW, 5000kHz 2kW, 10000kHz 2kW, 15000kHz 2kW: Continuous exc. from 16 min to 19.59 min after each h — WWVB 60kHz 13kW: Continuous — WWVL 20kHz 1.8kW: Continuous, except for exp. changes.

Program:
WWV transmits radio propagation forecasts in International Morse Code every 5 min's just preceding the voice ann's; the IUWDS "Geoalert" is broadc. in International Morse Code each h from WWV during the first half of the 19th min and from WWVH during the first half of the 49th min. Greenwich Mean Time is ann. from st's in Intern. Morse Code each 5 min. At WWV a voice ann. of Greenwich Mean Time is given each 5 min as follows: "National Bureau of Standards, WWV, Fort Collins, Colo. Next tone begins at . . . hours . . . minutes Greenwich Mean Time". At WWVH a voice ann. of Greenwich Mean Time is given each 5 min as follows: "National Bureau of Standards, WWVH, Maui, Hawaii. Next tone begins at . . . hours . . . minutes Greenwich Mean Time". WWVB transmits a special time code consisting of 10db carrier reductions each second for 0.2, 0.5 or 0.8 sec (format on request). Transmitted phase will be advanced 45° for 5 min. each h between 10 min. and 15 min. after the hour. No special identification will be given. WWVL is still experimental and operates on 20kHz; also 19.9, 20.5 and 20.9kHz. WWVL current format: 20kHz from min to min+10 sec; 19.9kHz from min+10 sec to min +20 sec, then again. No other identification or codes used — **V.** by QSL-card or letter. **Pub:** Prgr. sched. on request. In addition to the 20kHz carrier other exp. freq's near 20kHz may be transmitted alternately or simultaneously.

STATION LOL
Addr: Servicio de Hidrografia Naval, Observatorio Naval, Avenida Costanera Sur 2099, Buenos Aires, Argentina. **Standard Freq. and Signals:** 5000kHz 2kW, 10000kHz 2kW, 15000kHz 2kW: From 04.00 1st Sun in Oct. to 03.00 1st Sun in April: 11.00-12.00, 14.00-15.00, 17.00-18.00, 20.00-21.00, 23.00-24.00; From 03.00 1st Sun in April to 04.00 1st Sun in Oct: 12.00-13.00, 15.00-16.00, 18.00-19.00, 21.00-22.00, 00.00-01.00 — **Schedule:** 3 min dash (1000 or 440cs alternately) beginning at 00 00, 00.50, 00.10, etc. Then 3xLOL in morse at min's 03, 08, 13, 18, 23 . . . in the h followed by ann. at min's 04.50, 09.50, 14.50 . . . ("Observatorio Naval Argentina, ... Horas . . . . minutos"). T.S. transmission at min. 55-58 in each h — **V.** by QSL card folder. Re. wanted.

STATION VNG — AUSTRALIAN POST OFFICE
Addr: Station VNG, c/o Assistant Dir. Gen, Radio Section, Postmaster-General's Dept, 57 Bourke St, Melbourne, Vic. 3000, Australia. **Cable:** Radiogen. **L.P:** Divisional Eng. R. Trainor.

Stations: Lyndhurst: 4500kHz 09.45-21.30; 7500kHz 22.45-22.30; 12000kHz 21.45-09.30 (all 10kW). The st. transmits seconds signals of 50 cycles, of 1000Hz tone. The 59th second of each min. is omitted. Seconds 55-58 are shortened to 5 cycles. For min's 5, 10, 15, etc, seconds 50-58 are shortened to 5 cycles. Between 20 and 50 of mins. 15, 30, 45 and 60 a recording is played: "This is an Australian Post Office standard frequency and time signal tr. from VNG Lyndhurst Victoria on 4.5, 7.5 and 12MHz" . . . — **V.** by QSL-card.

OBSERVATORIO NACIONAL, Brasil
Originates time signals, which are broadcast by stations PPE and PPR.

PPE: Addr: Serviço da Hora, Observatorio Nacional, Rua Gen. Bruce 586, Rio de Janeiro, GB ZC-08, Brasil — **L.P:** Chief Eng: C. G. Lacombe — **Station:** 8721kHz: 13.25-13.30, 20.25-20.30, 00.25-00.30.

PPR: Addr: Radio Rio, Av. Francisco Bhering, Arpoador, Rio de Janeiro, GB — **Stations:** 435, 8634, 13105, 17194kHz, 14.25-14.30, 21.25-21.30, 01.25-01.30.

DOMINION OBSERVATORY, Canada
Addr: Observatory Crescent, Ottawa 4, Ontario, Canada. **Te:** 232-8211. **L.P:** Adm: Dr. J. Hodgson. Dir. Tcc: M. M. Thomson.

Stations: CHU 3330kHz 90.09m 3kW — 7335kHz 40.90m 3kW — 14670kHz 20.45m 3kW. **T.S:** Continuous by voice and seconds pulses. Freq. control by Calsium clock. **Ann:** English: "CHU Canada, Eastern Standard Time". French: "CHU Canada, Heure normale de l'est". **V.** by QSL-card. Re. welcomed. **Pub:** Station information free.

STATION CCV, Chile
Addr: Instituto Hidrográfico de la Armada, Casilla 324, Valparaiso.

Stations: 4271. 8558, 12960kHz — **Transmissions:** 11.55-12.00 on 4271/8558kHz; 13.55-14.00, 15.55-16.00 and 21.55-22.00 on 8558/12960kHz; 00.55-01.00 on 4271/8558 kHz.

STANDARD FREQUENCY STATION OMA
Addr: Budecska 6, Praha 2, Vinohrady, Czechoslovakia. **Te:** 258758. **L.P:** Dir: B. Sternberk — **Stations:** OMA 50kHz 20kW: 24 h — OMA 2500kHz 1kW: 24 h — OLB5 3170kHz 5kW: 24h — **Ann:** In morse code — **V.** by QSL-card. Re. wanted.

CENTRE NATIONAL D'ETUDES DES TELECOMMUNICATIONS
FFH: Addr: 196, rue de Paris, 92 Bagneux, France. **Te:** 532-40-00. **L.P:** Chief Eng. Freq. Dept: P. la Maida. Chief Eng: B. Decaux.
Station: FFH 2500kHz 5kW: 08.00-16.25 (Mon-Fri), no transmissions in minutes 25-30 — **Ann:** In Morse on the 9th and 49th minute.

BUREAU INTERNATIONAL DE L'HEURE
Addr: 61 Avenue de l'Observatoire, Paris 14, France. **L.P:** Dir. B. Guinot — **Stations:** St. André de Corcy FTA91 91.15kHz 45kW: 08.00, 09.00, 09.30, 13.00, 20.00, 21.00, 22.30; Pontoise FTH42 7428kHz 6kW: 09.00, 21.00 — FTK77 10775kHz 6kW: 08.00, 20.00 — FTN87 13873kHz 6kW: 09.30, 13.00, 22.30 — **V.** by letter.

DCF77, MAINFLINGEN, Germany
Addr: Physikalisch-Technische Bundesanstalt, Braunschweig, Bundesallée 100, Fed. Rep. of Germany. **Cable:** Bundesphysik. **Te:** 5921. **L.P:** Pres: Prof. Dr. Ing. M. Kersten.

Station: DCF77 77.5kHz 12kW and transm, extends essentially from 06.45-10.35, 19.00-20.10 and around every full h until midnight. Call-sign DCF77 in morse-code, amplitude modulations 440 and 200 c/s. Interruptions every second (duration 50 ms). **Pub:** Prgr. schedule on request.

GERMAN HYDROGRAPHIC INSTITUTE
ADDR: P.O. Box 220, 2 Hamburg-4, W. Germany. **Te:** 311121. **Cable:** Hydrodienst. **L.P:** Head Times Sce: Dr. H. Enslin.
Unmodulated time signals at 23.55-00.06 on DAN-2614 kHz (2kW), DAO-2775kHz (2kW), DAM-6475.5kHz (5kW) (21/3-20/9); DAM-12763.5kHz (15kW) (21/2-20/9); DAM-4265kHz (5kW) (21/9-20/3); DAM-8638.5kHz (10kW) (21/9-20/3); 11.55-12.06 on 2614, 2775, 8838.5, 16980kHz (15kW).

LF transmissions: Unmodulated time signals at 07.01-07.10, 10.01-10.10, 19.01-19.10, 19.31-19.40, 20.01-20.10, 21.01-21.10, 22.01-22.10, 23.01-23.10, 00.01-00.10, 01.01-01.10, 02.01-02.10 on DCF77-77.5kHz (12kW); no transmissions from Sat 10.10-Sun 19.01; 01.01-01.10, 02.01-02.10 only 1/3-21/10) . . .
DAM = Elmshorn: DAO = Kiel; DAN = Norddeich; DCF77=Mainflingen.

CENTRAL INSTITUTE OF PHYSICS OF THE EARTH, TIME SERVICE
Addr: DDR-15 Potsdam, Telegrafenberg A 17. **L.P:** Dipl-Ing: G. Hemmleb.
Station: Nauen (DIZ) 4525kHz 5kW: 09.45-08.15.

NATIONAL PHYSICAL LABORATORY (Gov.)
Addr: Div. of Electrical Science, Teddington, Middlesex, Gt. Britain. **Te:** 01-977 3222. **Cable:** Physics, Teddington. **Telex:** 262344.

MFS Standard Frequency Service:

kHz	m	kW	
60	5000	50	continuous
2500	120	0.5	continuous*
5000	60	0.5	continuous*
10000	30	0.5	continuous*

*continuous but tr. interrupted 6 times an h at mins 5-9½, 15-19½, 15-29½, etc.
Ann: Call sign given nine times in morse at minutes 9½-10, 19½-20, 29½-30 on the H.F. transmissions, and twice in the six seconds preceeding the hour on the 60kHz transmission except between 14.30 and 15.30 when it is the same as the H.F. schedule — **V.** by letter.

ROYAL GREENWICH OBSERVATORY
Addr: Time Dept, Herstmonceux Castle, Hailsham, Sussex, England. **Te:** Herstmonceux 3171. **Cable:** Observer.
The international Time Signals are radiated by GBR 16kHz (reserve: GBZ 19.6kHz) at 03.00, 09.00, 15.00 and 21.00 — **V.** QSL-cards not available.

ATA, NEW DELHI, INDIA
Addr: National Physical Laboratory, New Delhi.
Stations: 10000kHz 2kW: 05.30-10.30.

IAM, ROME, ITALY
Addr: Istituto Superiore delle Poste e delle Telecomunicazioni, Rome. **L.P:** Dir: Ing. F. Martorana — **Station:** 5000kHz 1kW — 07.30-08.30 (W), 13.00-14.00 (Mon-Fri), during summer one h earlier. **Ann:** With Morse code followed by hour GMT in Morse code or by phone ann.

IBF, TURIN, ITALY
Addr: Istituto Elettrotecnio Nazionale, Corso Massimo d'Azeglio 42, Torino. **Te:** 688773 — **Stations:** 5000kHz 5kW: W 06.45-07.00, 08.45-09.00, 09.45-10.00, 10.45-11.00, 11.45-12.00, 12.45-13.00, 13.45-14.00, 14.45-15.00, 15.45-16.00, 16.45-17.00, 17.45-18.00 — **Ann:** "Emissioni di frequenze e tempo campioni dall'Istituto Elettrotecnico Nazionale". The voice ann. is repeated in French and English: "IBF, Signaux horaires et fréquence étalon de l'Institut Electrotechnique National, Turin, Italie" and "IBF, Standard Frequency and Time Signals from the National Electrotechnical Institute, Turin, Italy".

STATION JJY
Addr: Radio Research Laboratories, Koganei, Tokyo, Japan. **Te:** (0423)81-1661 — **L.P:** Chief Freq. Standard Div: Y. Saburi — **Stations:** All 2kW nd, 24h: 2500kHz — 5000kHz — 10000kHz — 15000kHz — All freq's are interrupted at 29-34 min. past each h. Mod. seconds pulses of 8 cycles of 1600c/s and 1000c/s tone — **Ann:** At 34-35 min's and 59-00 min's in each h identifying signals are tr. consisting of call-sign in morse code (twice), time in JST once in morse code, call-sign twice in voice, time in JST once in voice and grade of propagation warning in morse code — **V.** by QSL-card.

ZLFS, LOWER HUTT, New Zealand
Addr: Physics and Engineering Laboratory, Lower Hutt, New Zealand. **Station:** 2500kHz 0.3kW: CW only Wed 01.00-04.00 — **Ann:** St. identification is made in morse code at the beginning and end of each tr.

STATION OBC, Peru — Addr: Estación Central de Comunicaciones Navales (Radio), Callao, Perú.
Stations: OBC 490/12307kHz: 12.55-13.00, 14.55-15.00, 15.55-16.00, 16.55-17.00, 18.55-19.00, 20.55-21.00, 22.55-23.00, 00.55-01.00, 02.55-03.00, 04.55-05.00 (Time Signals); 15.55-16.00, 20.55-21.00, 01.55-2.00 (Wrp. and information for navigators).

RUSSIAN STANDARD FREQUENCY STATIONS
RWM: 5000, 10000, 15000kHz — **RTA:** 5000, 10000, 15000kHz — **RKM:** 5000, 10000kHz — **RID:** 15000kHz. No other details available.

REP. OBSERVATORY SOUTH AFRICA
Addr: Republic Observatory, Johannesburg. **Te:** 43-2026. **Cable:** Astronomer — **L.P:** Dir: J. Hers — **Stations:** Call ZUO: Olifantsfontein 5000kHz 4kW — Johannesburg 10000kHz 0.25kW — Johannesburg 100MHz 0.050 kW: 24 h per day, exc. for interruptions 15 to 20 min. past each h.
Time Signals: Continuous second pulses, consisting of 5 cycles of 1000c/s tone. The minute pulse is prolonged

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TABLE OF THE

MOST SUITABLE MEGACYCLE BROADCASTING BANDS, 1970

Prepared by George Jacobs, Washington, D.C.

LOCATION OF TRANSMITTING STATION

Jan. 'Feb. Nov./Dec. 1970 Mar./Apr. Sep./Oct. 1970 May—August 1970

THE LISTENER'S AREA	LOCAL TIME	GMT TIME (APPROX)	Eu/N. Af.	N. Am. (E)	N. Am. (W)	C./S. Am.	C./S. Af.	ME/S. As.	E. As.	Aus./NZ.	Eu/N. Af.	N. Am. (E)	N. Am. (W)	C./S. Am.	C./S. Af.	ME/S. As.	E. As.	Aus./NZ	Eu/N. Af.	N. Am. (E)	N. Am. (W)	C./S. Am.	C./S. Af.	ME/S. As.	E. As.	Aus./NZ
EUROPE	00.00-04.00	23.00-03.00	6	6	9	4	9	9	9	9	6	9	9	11	9	9	9	9	11	11	9	9	15	15	11
AND	04.00-08.00	03.00-07.00	6	6	9	6	9	7	9	9	6	9	9	11	11	9	11	11	9	11	11	11	11	11	15	9
NORTH	08.00-12.00	07.00-11.00	11	—	9	9	17	15	17	9	11	9	9	11	17	15	17	11	11	15	11	11	17	17	15	17
AFRICA	12.00-16.00	11.00-15.00	11	15	9	15	17	15	15	15	11	15	11	15	21	15	15	15	11	15	11	15	17	15	15	15
	16.00-20.00	15.00-19.00	11	17	—	15	17	15	11	9	15	17	—	15	21	15	11	11	11	15	—	15	17	15	11	9
	20.00-24.00	19.00-23.00	6	11	—	11	11	7	9	9	9	15	15	15	11	9	9	9	9	15	15	15	15	9	9	9
NORTH	10 PM-2 AM	03.00-07.00	6	6	9	6	9	9	11	11	9	6	11	6	9	9	11	11	9	9	11	6	9	9	11	15
AMERICA	2 AM-6 AM	07.00-11.00	9	—	9	9	11	9	9	9	11	—	9	6	9	9	11	11	11	—	9	9	11	11	11	11
(EAST)	6 AM-10 AM	11.00-15.00	15	15	9	9	17	15	9	9	15	15	9	9	17	15	11	9	15	15	9	11	17	15	11	9
	10 AM-2 PM	15.00-19.00	17	15	—	15	21	15	—	—	17	15	—	15	21	15	—	—	15	15	—	15	17	15	—	—
	2 PM-6 PM	19.00-23.00	11	11	15	15	11	15	9	—	15	11	15	15	15	15	—	—	15	15	15	15	15	11	—	—
	6 PM-10 PM	23.00-03.00	6	6	11	6	9	9	15	15	9	6	17	6	9	9	17	17	11	9	15	6	11	11	17	17
NORTH	12 Mid-4 AM	08.00-12.00	6	9	6	6	11	9	9	11	9	9	6	6	11	9	9	11	9	9	6	6	11	11	9	11
AMERICA	4 AM-8 AM	12.00-16.00	11	15	6	6	11	11	9	11	11	11	6	9	15	11	9	11	11	11	6	11	11	11	11	11
(WEST)	8 AM-12N	16.00-20.00	15	17	—	15	17	15	11	11	15	17	—	15	17	15	11	11	15	15	—	15	17	15	15	11
	12N-4 PM	20.00-24.00	11	15	15	15	17	15	15	17	11	15	15	15	17	15	15	17	15	15	15	15	17	15	15	17
	4 PM-8 PM	00.00-04.00	9	11	15	11	11	15	17	17	9	15	15	11	11	15	17	17	11	15	15	11	11	15	15	17
	8 PM-12 Mid	04.00-08.00	6	9	9	6	9	11	15	15	9	9	9	6	9	11	15	15	11	9	11	6	9	11	15	15
CENTRAL	00.00-04.00	04.00-08.00	9	9	11	6	9	9	11	15	9	11	11	6	9	9	11	15	11	11	11	6	9	11	11	15
AND	04.00-08.00	08.00-12.00	9	9	9	9	9	11	9	11	11	11	11	9	9	11	11	11	11	9	9	9	11	11	11	11
SOUTH	08.00-12.00	12.00-16.00	17	17	11	11	17	15	11	11	17	17	11	11	17	17	11	11	17	15	11	11	15	17	11	11
AMERICA	12.00-16.00	16.00-20.00	17	17	—	15	15	15	11	11	17	15	—	15	15	15	11	17	17	—	15	17	15	15	11	11
	16.00-20.00	20.00-24.00	15	15	17	15	15	15	17	15	15	15	17	15	15	15	15	17	15	15	17	11	15	15	15	17
	20.00-24.00	00.00-04.00	9	11	15	9	11	11	15	17	11	11	15	6	11	11	17	17	11	15	15	6	11	15	15	17
CENTRAL	00.00-04.00	22.00-02.00	9	11	15	11	7	9	11	15	11	11	15	11	7	9	11	15	11	15	15	11	7	11	11	15
AND	04.00-08.00	02.00-06.00	9	9	9	9	9	11	11	17	9	9	11	9	9	11	11	17	11	9	15	9	9	11	11	17
SOUTH	08.00-12.00	06.00-10.00	15	9	11	11	11	15	15	15	17	9	11	11	11	15	15	15	17	17	11	11	11	15	15	15
AFRICA	12.00-16.00	10.00-14.00	17	15	11	11	11	15	15	11	17	15	11	11	11	15	15	11	17	15	11	11	11	15	15	17
	16.00-20.00	14.00-18.00	21	21	15	15	11	15	15	9	17	17	15	15	11	15	15	9	17	17	15	15	11	15	15	9
	20.00-24.00	18.00-22.00	11	15	—	15	11	11	11	15	11	17	—	15	11	11	15	15	15	17	—	15	11	15	15	15
MIDDLE	00.00-04.00	21.00-01.00	9	9	15	11	11	9	9	11	11	11	15	11	11	9	9	11	11	15	15	15	11	9	11	15
EAST	04.00-08.00	01.00-05.00	9	7	11	11	9	9	17	17	9	9	15	11	9	9	17	17	11	11	15	11	11	9	17	17
AND	08.00-12.00	05.00-09.00	11	9	9	11	15	11	17	15	15	9	11	11	15	11	17	15	15	9	11	11	15	11	17	15
SOUTH	12.00-16.00	09.00-13.00	17	9	9	11	17	15	15	11	17	11	9	11	17	15	15	11	17	11	9	11	17	15	15	11
ASIA	16.00-20.00	13.00-17.00	17	17	11	15	17	11	11	9	17	17	11	15	17	11	11	9	17	15	11	15	15	11	11	9
	20.00-24.00	17.00-21.00	9	15	—	15	15	9	11	9	15	15	—	15	15	9	11	9	15	15	—	15	15	11	11	9
EAST ASIA	00.00-04.00	16.00-20.00	9	11	—	9	9	9	6	11	11	15	—	11	9	9	7	11	15	15	—	15	11	11	9	11
	04.00-08.00	20.00-00.00	9	11	15	11	11	11	7	15	11	15	15	15	11	11	9	15	11	15	15	15	11	11	9	15
	08.00-12.00	00.00-04.00	9	15	17	15	15	15	15	17	11	15	17	15	11	15	15	17	11	15	15	15	11	15	15	17
	12.00-16.00	04.00-08.00	11	9	11	11	15	17	15	17	11	11	15	11	15	17	15	17	15	11	15	11	15	17	15	17
	16.00-20.00	08.00-12.00	17	9	9	11	15	17	11	11	17	9	11	11	15	17	11	11	17	11	11	11	15	17	11	11
	20.00-24.00	12.00-16.00	15	15	9	15	15	15	9	9	17	15	9	15	15	9	9	17	15	9	15	15	15	9	9	9
AUSTRALIA	00.00-04.00	14.00-18.00	15	15	9	11	11	9	11	9	15	15	9	11	11	9	11	9	15	15	11	11	11	9	11	6
AND	04.00-08.00	18.00-22.00	7	15	—	11	11	9	11	9	7	15	—	11	11	9	11	9	11	15	—	11	11	11	11	9
NEW	08.00-12.00	22.00-02.00	15	15	21	15	11	15	15	11	15	17	21	15	11	15	15	9	15	17	17	15	11	15	15	9
ZEALAND	12.00-16.00	02.00-06.00	11	11	15	11	15	15	15	11	11	15	15	15	15	15	15	11	11	15	15	15	15	15	15	11
	16.00-20.00	06.00-10.00	9	9	11	15	17	15	15	11	9	11	11	15	17	15	15	11	15	11	11	15	17	15	15	11
	20.00-24.00	10.00-14.00	17	9	9	11	11	11	11	9	17	9	9	11	11	11	11	9	17	15	11	15	11	11	11	9

The band selections have been made on the basis of both propagation conditions and operating schedules.
A dash in the band column indicates reception is not expected due to difficult propagation conditions or stations not normally operating in propagationally suitable bands.

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to about ½ second — **Ann:** In morse code every 15 min's (just before each quarter hour): ZUO, ZUO, ZUO followed by the Universal time of the next minute. **V.** by letter will be answered if they are genuine reports.

US NAVAL OBSERVATORY, Navy Department, Washington, DC. 20390, USA — **L.P:** Dir. Time Sce. Div: G. M. R. Winkler.
VLF Time Signals are aired from 55th to 60th min's as follows: NSS (Annapolis): Each h on 21.4kHz; **NBA** (Canal Zone) each even h exc. 23.55-24.00 on 24.0kHz. **HF Time Signals** begin 5 min's before the h and terminate on the h. **NSS** (Annapolis): 04.55, 10.55, 16.55, 22.55 on 88kHz, *5870, 8090, 12135, 16180kHz (*exc. Tues 16.55 when on 185kHz); 16.55, 22.55 on 20225 and 25590kHz — **NPG** (San Francisco): 23.55, 05.55, 11.55, 17.55 on 114.95kHz, 4010, 6428.5, 9277.5, 12966, 17288 and 22635kHz — **NPM** (Honolulu): 23.55, 05.55, 11.55, 17.55 on 131.05kHz, 4525, 9050, 13655, 16457.5 and 20575kHz — **NPN** (Guam): 23.55, 05.55, 11.55, 17.55 on 484, 4955, 8150, 13530, 17530, 21760kHz — **NBA** (Canal Zone): 04.55, 10.55, 16.55, 22.55 on 147.85kHz, 5448.5, 11080 and 17697.5kHz.
High precision corrections are available upon request. These "Daily Phase Values" give the time of emission of a positive zero crossing of the carrier frequency with respect to the Observatory master clock. All US VLF stations, the radio navigation system "OMEGA" and the US Coast Guard LORAN-C stations are listed on these weekly bulletins.

SATELLITES AND THE 70's

by Daniel D. Karasik Manager for Television Development
Communications Satellite Corporation

Daniel D. Karasik is Manager for Television Development of the Communications Satellite Corporation (COMSAT) with headquarters in Washington, D.C. In this capacity, he is responsible for coordinating satellite systems and facilities to provide optimum television and sound broadcast services. Mr. Karasik also advises and assists overseas communications administrations and broadcasters in developing, planning and coordinating telecasts via satellite.

Mr. Karasik joined COMSAT in the fall of 1966 after 20 years as a journalist, foreign correspondent and television producer. For six years before coming to COMSAT he was a writer-producer-director of public affairs programs for NBC News. Working out of Washington, he helped produce a number of NBC's award-winning documentary "specials". Among them were, Japan: East Is West (1961), U.S. ‡1: American Profile (1962), Shakespeare: Soul of an Age (1962), Polaris Submarine: Journal of an Undersea Voyage (1962), Orient Express (1962), Sikkim and Its Yankee Queen (1964), and J.F.K. Remembered (1964). His awards include two top Venice Film Festival prizes — a first in 1963 and a second in 1962.

Mr. Karasik began his career with the Chicago Daily News. After five years of newspapering in Chicago and Europe, he received a Ford Foundation fellowship for work in the Far East. (During World War II, after completing the course at the Navy Japanese Language School, he served as a Combat Intelligence Officer with Navy and Marine units in the Pacific). As a Ford Fellow, Mr. Karasik was the first American admitted to Tokyo University graduate school by examination in Japanese.

After two years writing and study in the Far East, Southeast Asia and Africa, Mr. Karasik went to work as a national television reporter for CBS News. At the time of the Hungarian Uprising, he went to Europe as the chief of the network's Vienna Bureau and for two years did television and radio reporting from Eastern Europe.

Mr. Karasik has a B.A. in Japanese Studies from Yale University. His graduate work in Japan as a Ford Fellow was in applied economics. He lives with his wife and two children in Bethesda, Maryland.

In this new decade communications satellites will bring dramatic changes to the patterns of television and radio broadcasting throughout the world. In the last few years broadcasters have been prompt to explore — and exploit — the myriad program possibilities of television via satellite. Although the broadcasting organizations of the world have already brought their viewers a remarkable series of events by satellite, what is past, I feel, is only prologue to what we shall see in the years ahead.

The global communications satellite system, realized in 1969, will have its first full year of operation in 1970. This is an extraordinary achievement, considering that man-made satellites of any kind are a fairly recent phenomenon. In the fall of 1957 when the Soviet Union orbited its first Sputnik, I was a CBS correspondent in Europe and happened to be in Lugano, Switzerland, when the Soviet Union launched its first Sputnik. Although the Soviet satellite had a tremendous political impact at the time, none of us standing on a balcony of the Hotel Splendide watching its pinpoint of light travel across the evening sky realized that Sputnik signaled a new communications age. It was only a year before — in 1956 — with the laying of the first transatlantic **telephone** cable, that high quality voice communication between Europe and North America had become possible.

The full impact of the potential of space for communications was dramatized in 1962 with the first live television transmission between France and England and the United States via the experimental satellite, Telstar. The passes of the low altitude Telstar limited transmissions between Europe and North America to about 30 minutes. But even these comparatively brief transmissions demonstrated the tremendous potential waiting to be developed.

In August of 1962, the Congress of the United States passed a novel piece of legislation recommended by President Kennedy. This bill, the Communications Satellite Act of 1962, called for the establishment of a world-wide communications satellite network.

In July of 1965, the International Telecommunications Satellite Consortium's first experimental satellite — INTELSAT I, more commonly known as Early Bird — went into regular commercial service.

Although the overwhelming bulk of INTELSAT traffic — and revenue — is from telephone and record communications, it is intercontinental television via satellite that has captured the public imagination. Very few people are aware that there are now more high-quality telephone circuits spanning the Atlantic by satellite than there are by cable.

On the other hand, the general public knows that satellites have made it possible to witness a number of historic events of our rapidly changing world — and, of course, outstanding sports events.

Television by satellite has had a remarkable growth. In 1966, the first full year of commercial operation, there were just over 80 hours of television by satellite. In 1967 the total of about 225 hours almost tripled that figure. And again, in 1968, the total time of television transmission by satellite — some 666 hours — almost tripled the 1967 figure. At the time of this writing it is already apparent that the amount of television by satellite in 1969 will greatly exceed that of 1968. The year saw such television highlights as the coverage of the Apollo missions to the moon and man's first steps on the lunar surface as well as the first satellite transmission from Africa when Pope Paul visited Uganda. In 1965 when the first commercial communications satellite service was established via Early Bird, the system encompassed five earth stations in five countries. By the end of 1969 it was expected that twenty-four countries would be operating 42 earth station antennas at 36 different earth station sites. During 1970 about 20 new earth stations are expected to begin operating, significantly expanding services in Africa, the Near East and Asia, and adding three new stations in Latin America.

During the year 1971, about ten new stations are expected to begin operating — Ecuador, Honduras, Ivory Coast, Martinique, Nigeria, East and West Pakistan, Scandinavia (Sweden), Senegal and Zambia.

In 1972 another seven new earth stations are expected to start operating — Algeria, Israel, Netherlands, Sudan, Switzerland, Turkey and the United Arab Republic. By the end of 1973, it is expected that about 80 stations will be operating in 52 nations all over the world.

Aside from the proliferation of earth stations and the improved quality of satellite television services, I believe that one of the principal reasons for the rapid growth in the use of satellites for television has been the continuing reduction in the cost of transmissions.

Briefly reviewing the development of the INTELSAT system provides a glimpse into the economics of satellites that has made — and, I hope, will continue to make — rate reductions possible.

INTELSAT I, or Early Bird, was launched in April of 1965. It had a squinted antenna that served the North Atlantic community with a nominal 240 two-way 4 kHz voice circuits. to provide television — two simultaneous monochrome channels or one color channel — the satellite had to be cleared of all telephony traffic. Early Bird had an expected life of one and a half years, so we say it had a capacity of 1½ x 240 circuits, or 360 circuit years. (Early Bird was taken out of regular service in January of 1969 after three and one-half years of operation — still performing well but outdated by more advanced and larger satellites.)

The next generation of satellites, the INTELSAT II's, were launched in 1966 and 1967. They also could provide some 240 circuits but their antennas were configured to cover a much broader area. The INTELSAT II's could provide a one-way television service with release of circuits in about half of the satellite. INTELSAT II's life expectancy was 3 years, and so we say its capacity was 240 x 3 or 720 circuit years. Consequently, in just one generation, we find that the circuit years have already doubled.

The launching of the INTELSAT III series of satellites began in 1968. These are considerably larger and more powerful, and can provide a nominal 1200 circuits for five years. Actually, about a quarter of the satellites' capacity is reserved for television and other occasional uses, and with the advent of INTELSAT III the tedious process of arranging for release of circuits in order to provide a television service was no longer necessary. The circuit year capability of this satellite jumps to 6000 — i.e. 1200 x 5 years' life expectancy.

Look ahead for a moment to the INTELSAT IV satellites which we expect to start launching in 1971. These satellites will provide an average of some 6000 circuits for an expected life of 7 years, making 42,000 circuit years.

Therefore, in the short period of five or six years, satellite capacity will have increased by about a hundred and twenty times, while the cost of such a satellite emplaced in space will have increased by no more than five times.

The significant factor here is the affect on the INTELSAT investment cost of a circuit year in the satellite. INTELSAT's investment per circuit year for the circuits in Early Bird, or INTELSAT I, was $15,300. For the INTELSAT IV the cost is expected to drop to about $500, or less than 4% of the Early Bird cost. Consequently, we have seen some dramatic reductions in satellite circuit costs. For example the COMSAT tariff for television from an earth station in North America to the satellite for service to Europe today — $660 for the first ten minutes — is less than 15% of the peak color charge for the same service in 1965.

As noted earlier, each of these satellites has what is to all intents and purposes capacity reserved for a television channel on a 24-hour-a-day basis. The quality of television provided by INTELSAT III is about three times better than that provided by the INTELSAT II satellites. We also have a greatly enhanced audio capability. Each satellite has the equivalent of 24 4-kHz channels reserved for television-associated audio services. This provides one broad-band channel for program audio and up to 21 additional 4 kHz channels for commentary or coordination purposes.

INTELSAT has made these audio channels available so that they may be ordered up and goodnighted individually, thus, satisfying what was recognized as a broadcaster requirement.

During 1970 a second INTELSAT III will be available in the Atlantic area. Thus, one INTELSAT III will be stationed over the

equator at 31°W and the other at 6°W. The 31° satellite will be used by stations in North and South America and in France, Germany, Italy and Spain. The 6° satellite will work with stations in Canada and the United States, the United Kingdom, France and parts of the Near East and Africa. There will be a television channel available in each satellite. Consequently, there will be a capability to provide two simultaneous telecasts. For example, while Brazil is transmitting a football match to Argentina, Chile, Peru and Mexico, a cultural program from France could be transmitted to stations in Greece, Lebanon and Africa.

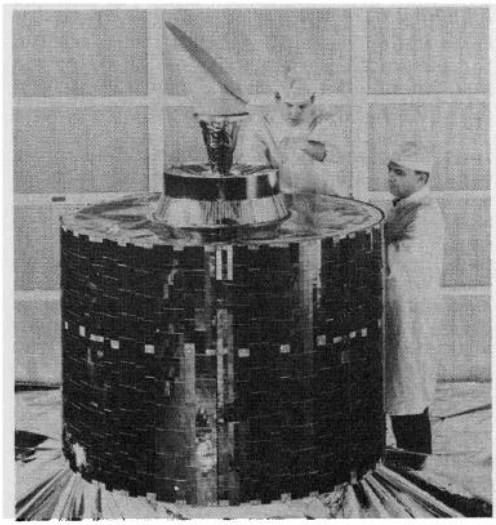
The INTELSAT IV — the first of which is expected to be in service over the Atlantic in early 1971 — will be approximately 8 feet in diameter and will have an overall height of about 18 feet.

In October of 1968 a $72 million contract was awarded to Hughes Aircraft Company for delivery of four spacecraft and one prototype in about two years.

The satellite will have a despun antenna and two steerable dish antennas, permitting transmissions to be sent in concentrated beams to heavily populated areas where communications needs are greatest.

The INTELSAT IV's will have 12 transponders (instead of the INTELSAT III series). Four of these can be switched to operate via the east spot beam and four can be switched to operate through the west spot beam — or all 12 can operate in the broadbeam global configuration. The east spot beam will cover roughly the area of Europe, Morocco and Algeria. The west spot beam will cover eastern North America and Puerto Rico.

Depending on the transponder configuration and size of carriers assigned, each satellite will provide from 3,000 to 10,000 telephone circuits. The total effective radiated power of Early Bird was 20 watts, INTELSAT II 35 watts, INTELSAT III 300 watts and INTELSAT IV will have the capability of radiating 2,400 to 25,200 watts depending on the beam widths. Each of the 12 INTELSAT IV repeaters will have an effective radiated power of 200 watts with a 20° beam and 4,000 watts with a 4.5° beam.



An INTELSAT III series satellite with a capacity of 1200 high quality voice circuits is shown here in a test chamber.

This will be a big and powerful bird, and it is expected to provide excellent television service. The first will be placed in synchronous orbit at 24.5° West over the equator. At that time is is expected that one of the Atlantic INTELSAT III's will be moved to the Pacific to help meet Pacific requirements until an INTELSAT IV is available in that area.

Present plans are to launch INTELSAT IV in the Pacific in 1972.

(There have been discussions about using the remaining INTELSAT III in the Atlantic as a "main trunk in the sky" for large traffic streams providing an alternate path between Europe and North America, but agreement on this concept is still pending).

At the present time, it is believed that the INTELSAT III satellite in the Indian Ocean will not be filled to capacity, even at the end of its design life in 1974. Consequently, plans call for an INTELSAT IV to be available to replace the Indian Ocean INTELSAT III in 1974.

At the time of this writing frequency plans for INTELSAT IV are not complete. It appears that one transponder will be reserved for television and it is anticipated that an additional channel can be made available when required. It is also hoped that arrangements will be made for sound broadcasting. Plans have not yet been decided.

Just as the transmission of television by satellite has — and will continue to — develop extremely rapidly, so will many other applications of this remarkable technology. I am sure that in a decade there will be a number of applications of satellite communications wed to other technologies not even foreseen today.

For industry, of course, the picture is quite clear. It will make increasing use of good communications to expand and exploit markets abroad. Large organizations will use transmission of high speed data to keep their fingers on the pulse of sales in remote markets, to keep production relevant to demand, to determine inventories, to automate order handling and shipping, not to mention billing.

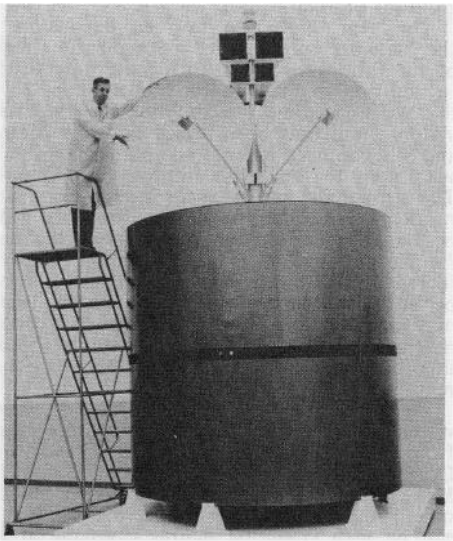
Computer will communicate with computer to assemble marketing studies and other relevant information from centers located around the world. Through a device such as your own telephone, you will have remote access to computers in various world centers. As the immense communications capacity of the satellite becomes available throughout the world — and as that capacity continues to grow — the economic threshold will go lower and lower so that uses that are technically possible will become economically feasible.

There will be opportunities for many innovations. The other day I was looking at the jacket of a record I had purchased a few years back. The record was produced in the United States by an American firm, and was of balalaika music by the OSIPOV Russian State Folk Orchestra. The jacket headlined the fact that in 1962 the recording involved the "huge task of sending four and a half tons of recording equipment with recording staff from New York to Moscow". It also said that it was the first recording ever made in the Soviet Union by American technicians, musical staff and equipment.

I would imagine that moving that mobile van, as well as personnel, from New York to Moscow, involved considerable expense — not to mention time and trouble. Satellites have the capability of delivering extremely high fidelity signals — mono or stereo — over great distances. Why move all the equipment and people? Might it not be more economical and practical to bring the music to the recording studios by satellite?

An infinite variety of news and cultural events — from many parts of the world that were never before accessible in real time — will become available to the broadcaster through communications satellites. Satellites will be able to bring you live performances — in AM, FM, or FM stereo — by new performers from practically any city in the world.

Another unique characteristic of the satellite for communications — aside from its immense capacity — is its multi-destination capability.



Full scale model of INTELSAT IV. Looming over nearby sugarcane fields is this 97-foot diameter parabolic dish antenna at the Cayey, Puerto Rico, earth station for commercial satellite communications. The facility is capable of handling and processing all types of communications: multi-channel telephone, teletypewriter, facsimile, data and both color and black and white television.

From its vantage point 22,300 miles out in space the satellite can transmit simultaneously to every earth station within the beam of its antenna. In other words, all earth stations that can "see" the satellite can receive its signal at the same time. This can have a number of interesting applications. The television networks are already looking to satellites for distribution of programs. TV news services, syndication services, news agencies and weather services, among others, are actively investigating the satellite's multi-destination capability to distribute their output speedily, economically, and efficiently.

Satellites will affect the world's listening and viewing habits. Audiences exposed to a variety of experiences and stimuli by ever-broadening programming opportunities will undergo certain changes in taste. Perhaps the 70's will see soccer rank with baseball as favourite TV spectator sport in the United States — and American-style football may someday be seen on the TV screens in South America, Europe, Africa and Asia.

Certainly we shall see more active interregional cooperation among individual broadcasters and broadcasting organizations. This is already necessary because of the increasingly complex arrangements for organizing coverage, clearance of rights, scheduling and coordinating changes in multi-destination transmissions, and sharing costs involved in large international pools.

It is my personnal hope and belief that the 1970's will see the birth of a **world** broadcasting organization, encompassing the regional broadcasting organizations in all areas of the earth, and acting as a clearing house for information and program materials, a planning center, and an operations coordinator at the service of broadcasters everywhere.

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EUROVISION IN 1969

by J. Treeby Dickinson,
Chief Engineer
Technical Centre of
the E.B.U.

I need make no apology for starting my report on the activities of Eurovision in 1969 by referring to the Apollo 11 Moon landing, in the early hours (for European viewers, at least) of Monday, 21st July. This was undoubtedly the most spectacular event of the year's viewing and its interest was of course particularly dependent on television.

The Apollo 9 and 10 missions had already provided a "dress rehearsal" for the Moon landing, and almost all the electronic equipment, including the special lightweight field-sequential colour-television camera which was used within the command module, had been tested and demonstrated on those occasions. The complexity of the arrangements for covering not only the launch at Cape Kennedy, Florida, and the Mission Control Room at Houston, Texas, but also the "splash down" of the returning space capsule in the Pacific Ocean entailed close collaboration between the EBU Operations team at Houston and the staffs of the other organisations involved, notably NASA and the EBU's North American Associate Members, ABC, CBS, and NBC

Although the centre of interest on that occasion was inevitably the Moon landing itself, another record was set nearer the surface of the Earth, when three communication-satellite circuits were connected in tandem for the first time to relay live pictures of the recovery of the space capsule from the Pacific Ocean to viewers in Europe, involving the use of both Earth-stations in Japan, linked specially for the occasion by terrestrial circuits. This solution had to be contrieved as a result of the failure of the Atlantic INTELSAT-III satellite shortly before the event, and the excellent technical quality of the transmission is a tribute to the design of the INTELSAT-III satellites.

There were several other first occasions during 1969. In particular, there was the first television transmission from Africa by satellite, during the visit of the Pope to Uganda. This was made possible by the use of a transportable Earth-station provided by the Italian Telespazio company, and outside-broadcast equipment provided by the RAI to supplement that of the Uganda Television Service. The high technical quality of the pictures received in Europe on that occasion too provided a foretaste of what will become a matter of routine as soon as the permanent Earth-stations in that continent enter service in the not-to-distant future.

Indeed, the expansion in the number of Earth-stations equipped for the transmission and reception of television signals was one of the most important developments of 1969. In addition to the completion of the second stations at Goonhilly (United Kingdom), Raisting (Federal Germany), and Plemeur-Bodou (France) for operation with the Indian Ocean INTELSAT-III satellite, new Earth-stations were opened at the following sites: Beirut (Lebanon), Bahrien, Kuwait, Mar del Plata (Argentina), Itaborai (Brazil) and Hong Kong, bringing the total number in operation up to 23 at the time of writing. Several other Earth-stations, notably those in Colombia, India, Indonesia, Iran, Kenya, Malaysia, Morocco, Nigeria, Pakistan, Senegal, the Sudan and Venezuela were also due for completion in late 1969 or early 1970.

New terrestrial circuits were taken into service also during 1969. Apart from those installed to increase the capacity of existing routes, newly-installed facilities now enable two further television networks to take part in Eurovision operations. One of these links the production centre of the Hellenic National Broadcasting Institute in Athens (Greece) to the Eurovision Network through Italy, and the other permits transmissions in both directions between France and Algeria, instead of only those towards Algeria as was hitherto the case. The entry into service of these new international junctions was marked by important Eurovision programme transmissions in each case; that from Athens consisted of the coverage of the European Athletics Championships, whereas that from Algiers was the opening ceremony of the first Pan-African Cultural Festival.

The year 1969 also saw an expansion of the network of circuits permanently leased by the E.B.U. for use in Eurovision operations; in addition to the circuits shown on p. 22 of the World Radio-TV Handbook for 1969, one vision circuit has been leased between Malmö and Stockholm (Sweden) and another from Paris via Lyons to the Swiss frontier near Geneva. The growth of traffic at its present rate will result in its becoming advantageous to lease permanently certain other circuits in the near future, although it is also apparent that the increased flexibility with which circuits can be utilised when they are permanently leased may make it desirable to incorporate certain new sections in the permanent network before this becomes attractive for purely economic reasons.

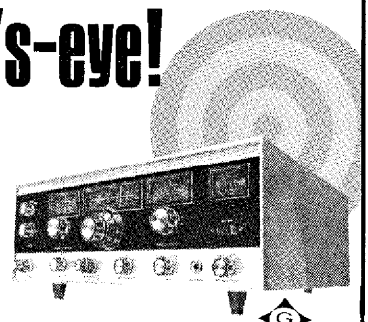
The exceptionally high figures for Eurovision traffic in 1968, arising to a large extent from the political situation in France and Czechoslovakia and the Olympic Games in Mexico, has resulted in an apparent falling-off in the growth rate for 1969, so far as can be seen from the figures available at the time of writing. During 1968, 2.612 tranmissions were handled by the EBU Technical Centre in Brussels, with a total duration of 1,515 hours. These figures were 25% and 27% greater respectively than those for 1967. During the first six months of 1969, however, the number of co-ordinated transmissions fell from 1.402 during the same period of 1968 to 1,244 although their toal duration increased from

815 to 830 hours. The foregoing figures, however, do not include those for the Daily News Exchanges (which have been effected regularly twice daily since April, 1969). in which 2,415 news-items were distributed to an average of eleven television services each during 1968, compared with 2,009 news-items to an average 10.5 services in 1967. In the first six months of 1969, the number of news-items distributed was 1,293.

Although seperate statistics are not available for colour television, it is evident that colour transmissions are forming an increasingly large proportion of the traffic. Apart from the eight EBU members in Europe which were regularly broadcasting in colour by the end of 1969, some ten others have been engaged in experimental colour broadcasting, and in both cases many of them include colour programmes received through Eurovision. It has even been reported that the sales of colour television receivers have been influenced by some popular Eurovision transmissions, such as those from the Olympic Games and the Apollo space missions.

The construction in 1969 of the circuits linking Athens with the other participants in Eurovision operations virtually marks the end of the geographical expansion of Eurovision "on the ground", that is to say, without having recourse to the use of satellites. Although the EBU has long-term plans for its own satellite system, as described in the article by Mr. Hansen in the 1969 World Radio-TV Handbook, the EBU is not neglecting its continuing task of improving the reliability and flexibility of operation of the existing terrestrial circuits. For this reason, a remotely controlled switching system is now being installed. This will enable the television circuits to be interconnected as required at the principal junction points on the Eurovision permanent network, by means of commands sent from the Eurovision Centre in Brussels. When this system is in full operation, the added flexibility and speed of operation will no doubt be quickly taken for granted. Although a successful Eurovision transmission is one in which the average viewer is unaware that it is different in any technical way from a programme produced in his local studios, there may still be some who will miss the "exotic" element in transmission from the more distant points of origin. However, before the illusion can be complete, a considerable effort must be made to improve the sound quality of Eurovision transmissions and this is another field in which EBU has made some progress during 1969, although its fruits may not become apparent immediately. In this context, an interesting development was a new method of conveying the sound component of a television programme over the wide-band circuit carrying the vision component; this system, developed by the BBC, provides a quieter and "higher-fidelity" sound channel than is otherwise practicable over long distances, and the EBU is at present examining the possibilities of using it in Eurovision applications.

Galaxy hit the bull's-eye!



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R. AUSTRALIA'S DARWIN-STATION

by P. W. R. Homfray, Director of Radio Australia

A high power high frequency broadcasting station is being constructed on the northernmost tip of Central Australia, on Cox Peninsula, about ten miles across the harbour from the city and port of Darwin. Cox Peninsula was chosen because ample space was available, actually, twelve square miles have been taken over — and then because it is close enough to Darwin to have the use of that city's facilities: for instance, power for the transmitters comes from the Darwin powerhouse and is fed at 66,000 volts through two submarine cables. Furthermore, the Peninsula is Australia's closest point to South-East Asia and it lies in the path of transmissions beamed northwards from Shepparton. The new station is being provided to increase the effectiveness of the present Radio Australia broadcast transmissions to the areas north and north west of Australia.

When completed and comes into full operation towards the middle of 1970, the new station will be the highest powered broadcasting station in Australia and will be of world standard in size and power. The first test transmissions from the station took place in February 1969. Regular evening transmissions to South and South East Asia are now being maintained. Regular transmissions to East Asia and the Philippines are expected to begin early in 1970.

The estimated total cost of the station is about $A-9 million divided almost equally between the radio engineering works and the other engineering works involved in establishing sites, buildings, roads and power supplies for the station. It is the only station in the world, whose staff goes to and from work by launch . . . across Darwin Harbour.

The high-power station complex is being established on the Cox Peninsula some six miles by sea north-west of Darwin. Two separate stations will be installed — a transmitting station on the north-west tip of the peninsula and a receiving station approximately eight miles east of the transmitting station.

Initially, programme for the Darwin station will be obtained at the new receiving station by reception of Radio Australia programme broadcast from Shepparton. Results to date indicate that there is no significant difference in programme quality between relayed programmes and direct transmission from Shepparton. A microwave system to link Darwin with the south is currently programmed for completion in 1972, and a conventional programme feed will then be available.

The two receiving aerials are vertically polarised log periodic types designed and manufactured by Co-el of Italy for optimum performance on the Darwin-Shepparton path, with high front-to-back ratios to minimise cross-fire from the nearby 250 kw transmitters, as well as interference from existing high-power transmissions in areas north and north-west of Darwin. The outputs of these antennas are fed to four diversity receiving terminals manufactured by Racal Electronics, U.K. The output of the diversity receiving terminals is monitored and selected by an operator for relay to the transmitting station via a microwave radio link manufactured by Radio Corporation of America. This microwave system loops the programme through Darwin to permit the Australian Broadcasting Commission to monitor and insert programme material if necessary.

The transmitting installation will comprise three American-built Collins Model 821A-2 high-frequency transmitters, each capable of delivering a power output of 250 kw. These transmitters represent the latest advances in broadcasting technology and embody extensive solid-state circuitry.

The major points of interest in the transmitter designs are:—

(a) the use of a high-speed digital computer system for transmitter control and checking. Besides providing for normal on-off frequency changing and tuning requirements on the transmitters, the computer control will carry out all routine testing and logging of transmitter operating conditions at predetermined intervals and will record this data as a permanent record. In the case of a transmitter fault occurring, the computer control will close down the equipment, provide an alarm and accomplish diagnostic investigation, under direction, to isolate the fault.

(b) the power amplifiers and modulator stages of the 250 kw transmitters will utilise vapour-phase-cooled tubes with maximum anode dissipations in the order of 300 kw. The use of vapour-cooled anodes reduces the water flow to only 5 per cent of that required for earlier water-cooled tubes and enables the high heat energies involved in the 250 kw transmitters to be dissipated in a cooling system of acceptable physical dimensions.

(c) the 250 kw transmitters are designed to operate at full carrier power output when the modulating signal (usually speech) is heavily clipped to raise the average depth of modulation and so enhance the intelli-

gibility of the transmissions in the presence of noise at the receiving locations. The distortion resulting from the clipping process is acceptable on speech programmes, and when full clipping (trapezoidal modulation to a depth of 95%) is employed, the intelligibility of the transmission from a 250 kw transmitter equals that of a 550 kw transmitter operating without trapezoidal modulation.

Programme input equipment for the transmitter is being fabricated by Post Office staff in South Australia, with the exception of the Swiss Brown Boveri speech clipping and compressing amplifiers which are necessary for the trapezoidal modulation process.

The three transmitters will be connected to the five antennas via open-wire transmission lines of 500 kw power-handling capability through a Brown Boveri matrix switch enabling any transmitter to be connected to any antenna.

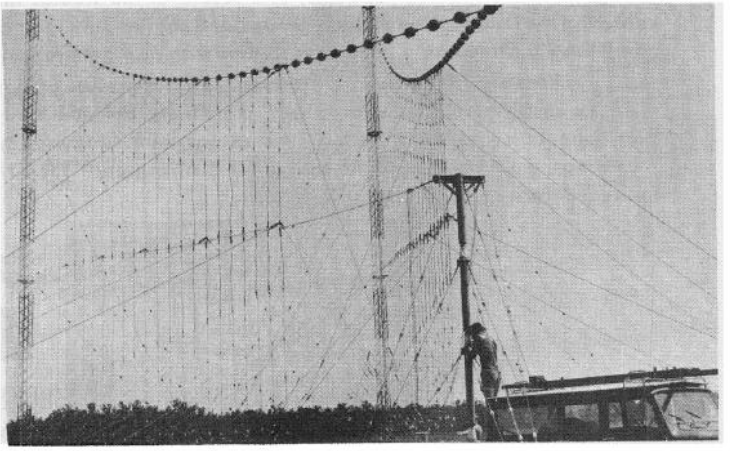
The transmitting antennas are two-bay, vertically polarised log periodic arrays erected above a highly-conductive earth system but with a balanced input impedance to enable direct connection to the balanced transmission line system.

A total of five log periodic arrays will be installed to cater for transmissions to the required target areas on the Asian continent.

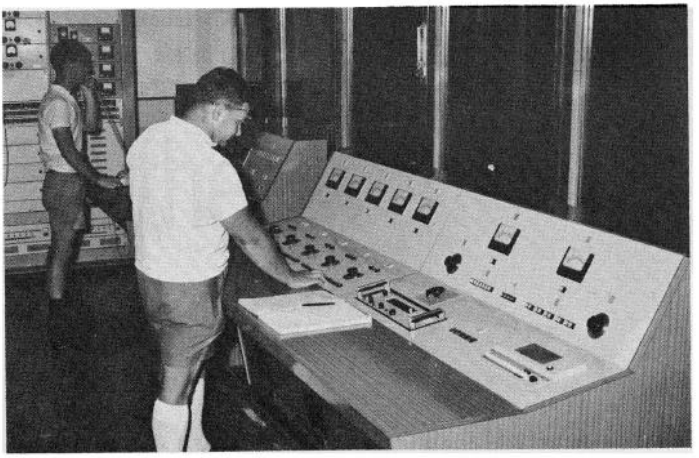
The transmitting arrays are designed for 500 kw working to permit parallel operation of two 250 kw transmitters on one transmission should this be required in the future. The design of the antenna provides for maximum received signal levels in the target areas while also providing a high degree of protection on other bearings, particularly rearwards, to minimise cross-fire into the receiving station aerials.

With an average gain of 18 dB available from the transmitting arrays, the effective radiated power using 250 kw transmitter powers will be 23 mega-watts towards the target areas.

By utilising the log periodic type of aerial array, it is possible to cover all transmission requirements from three transmitters with only five arrays and a simple transmission line-switching facility. A 500 kw dissipative line constructed from stainless steel tubing is to be used as a non-radiating test load for the transmitters.



Spider webs of wire in receiving aerials at new station. Transmitting aerials have same principle.



Technicians at a control panel at new station.

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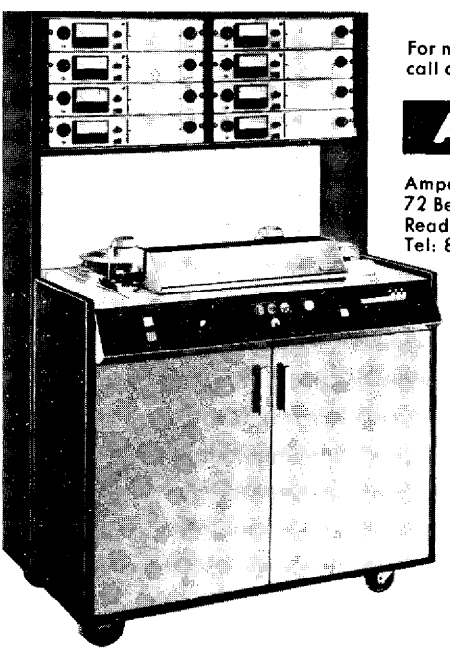

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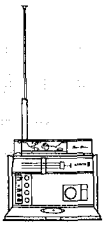

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. . . 25 YEARS LATER . . .

Josef C. Nichols, Chief, International and Satellite Communications Unit, Radio and Visual Services Division.

A quarter of a century ago, the peoples of the United Nations solemnly proclaimed their determination

to save succeeding generations from the scourge of war, which twice in our lifetime has brought untold sorrow to mankind, and

to reaffirm faith in fundamental human rights, in the dignity and worth of the human person, in the equal rights of men and women and of nations large and small, and

to establish conditions under which justice and respect for the obligations arising from treaties and other sources of international law can be maintained, and

to promote social progress and better standards of life in larger freedom.

Today, twenty-five years later, these goals of the international community have lost nothing of their importance. In fact, international co-operation today is more urgent than ever — to cope not only with the great problems that already existed in 1945 but also with the many new questions posed by the unprecedented changes that have occurred over the past quarter of a century in virtually every field of human endeavour.

Nowhere are these changes more evident than in the realm of communications.

The United Nations was born into the era of the capricious wire recorder, the 50 kw shortwave transmitter, the experimental television station, and the as yet unrealized dream of coaxial telephone cables across the oceans. This year, as the World Organization observes its twenty-fifth anniversary, mankind is rapidly advancing into the era in which all human beings, no matter where they live, will truly be able to be citizens of one world, in the sense that they will have the possibility of becoming instantaneous witnesses, in sight and in sound, of virtually every important event in every part of the globe.

Naturally, the United Nations has followed various aspects of the communications revolution with the greatest of interest. Particularly in the field of space communications, the UN General Assembly has recognized its responsibility for the establisment of an appropriate international legal framework and has already authoritatively spelled out a number of important agreed principles.

Thus, the Assembly stated as early as 1961 that "communication by means of satellites should be available to the nations of the world as soon as practicable on a global and non-discriminatory basis". Only recently, the Assembly reaffirmed this statement and recommended that "States parties to negotiations regarding international arrangements in the field of satellite communication should constantly bear this principle in mind so that its ultimate realization may not be impaired".

In 1968 the United Nations convened in Vienna a Conference on the Exploration and Peaceful Uses of Outer Space, with the participation of 74 countries. The problem of space communications was given high priority, and the presentations and discussions on this topic made an important contribution to further international co-operation in this field. Particular attention was paid to ways and means of making the benefits of space communication available to developing countries.

Further, the General Assembly has given to its Committee on the Peaceful Uses of Outer Space the task of examining the various implications of space communications. In 1969 a Working Group of the Committee considered in detail the technical feasibility of communication by direct broadcast from satellites and the current and foreseeable developments in this field, as well as the implications of such developments in the social, cultural, legal and other areas.

The United Nations also attended, in observer capacity, the Plenipotentiary Conference on Definitive Arrangements for the International Telecommunications Satellite Consortium (INTELSAT Conference) as well as the meetings of the Preparatory Committee of the Conference.

Last but not least, the UN Secretary-General has responded to a General Assembly resolution noting "the potential importance of communication satellites for use by the United Nations . . . for both operational and informational requirements", and has formulated concrete plans to make such use possible. Communications satellites are already being utilized by broadcasting organizations the world over for their reports from UN Headquarters.

Thus, twenty-five years after its creation, the United Nations not only continues the global effort to find solutions for man's age-old problems, but also stands in the forefront of international co-operation in a field which only recently has been opened up by human ingenuity.

The ultimate aim of that international co-operation under the aegis of the world Organization is inspiring indeed: to ensure that the remarkable benefits of outer space science and technology are shared by all mankind.

THE VOICE OF DENMARK STOPS AT THE PEAK OF ITS POPULARITY

by Vagn Skovgaard, Prgr. Secretary, Radio Denmark, Shortwave Dept.

While the Danish Radio Commission is still at work, the board of directors of Radio Denmark has taken the decision that the Shortwave Service cease its foreign service from 1st January, 1970.

As many of our listeners may know, the Danish Shortwave Station celebrated its 20th anniversary last year. But the Danish Shortwave Service is at least 30 years old. As early as in 1937 Denmark was active on the shortwave bands with primitive programmes in Danish, broadcast over a weak transmitter for the benefit of the Danes living abroad. During the occupation, Denmark had to close down. But already then a new and strong transmitter was being planned, and after the liberation, the construction of the new station started. Unfortunately the transmitter was a pre-war type and thus already somewhat obsolete when taken into use in October 1948. At that time, however, the Shortwave bands were not so crowded and the start of the station was therefore very successful.

Denmark had learnt a lot from wartime broadcasting, particularly the broadcasts from the BBC in many foreign languages had shown what a wonderful medium radio is — and especially Shortwave Radio — when you want to communicate to other peoples across all borders.

This was the reason for an introduction of a Danish foreign service (although a rather humble one) right from the start in October 1948. And we are certain that our listeners agree that it has not been a national or political "propaganda machine" but has only served to place Denmark on the map and tell about this country for better or for worse.

Other countries saw the political influence that could be exerted through the shortwave bands, and particularly the "Cold-War" period witnessed an enormous expansion in international shortwave activities — including a lot of jamming stations.

This made conditions very difficult for the small countries. Some of them — Switzerland, Holland, and — to a certain extent — Sweden and Norway — took up the challenge. Though many attempts from the Danish International Service were made to convince the management that a more powerful station was required, their efforts were in vain.

It is expected that, in due time, a more powerful transmitter will be utilized for the Danish language broadcasts, but it is not likely that the decision to wind up the English and Spanish transmissions will be reversed.

Those working on the Foreign Service programmes find the situation deplorable, particularly as the listeners appear to appreciate the quality of the programmes transmitted. Thus one listener in the US wrote in to say that the more difficult the conditions of broadcasting for Radio Denmark, the higher the level of our programmes became. Today the response from listeners is higher than ever before. We would like to emphasize the excellent co-operation we have had with our non-Danish listeners, and to express to you our warmest thanks.

And by the way — if you should like to keep in touch with Scandinavia and developments in this area after April 1, 1970, we suggest that you tune in to the International Service of Radio Sweden.

The above article carries news which we can only regard with considerable regret. The WRTH is noted for its factual content. However, on this rare occasion we feel it necessary to comment on what we hope will remain a unique event.

The decision of the board of directors of Radio Denmark to cease the foreign side of its shortwave service must be respected. It can only be assumed that a decision of this nature was not taken lightly. Nevertheless, in our role in the field of international communications, we feel the need to reaffirm the importance of the type of foreign service which Radio Denmark has provided.

Communication is our field. This edition describes some of the enormous strides forward which we shall experience in the '70's; but specifically the emphasis of these articles is on the universal communication of world *events*. While this is important we feel that *international understanding* — the understanding of each other's attitudes and problems — is more important. This understanding is at the root of our survival.

It is in this field that the foreign service of Radio Denmark was amongst the leaders. Political propaganda was not stressed. The programmes reflected the very nature of the Danish people — inter alia, their musical tastes; news broadcasts reported their internal problems; commentaries and discussions portrayed their attitudes — in essence it was the Danish "culture" which was presented to non-Danish people. It is this depth of communication that we are concerned to protect.

We hope that the loss of such a communication medium will never recur. We ask broadcasters, where possible, to remind themselves that although the economic benefits of outside broadcasts in foreign languages can never be assessed in monetary terms — in terms of mutual understanding these services are invaluable.

J. M. Frost, Editor

RADIO BROADCAST RECEPTION CONDITIONS EXPECTED DURING 1970

By George Jacobs, Chief Frequency Division, Voice of America, U.S. Information Agency, Washington, D.C. 20547

By international agreement, broadcasting stations are allocated the following specific bands in the radio spectrum:

LONG WAVE (*Low Freq.*)		MEDIUM WAVE (*Medium Freq.*)	
Kilocycles	**Meters**	**Kilocycles**	**Meters**
150-285	1053-2000	525-1605	187-571

SHORT WAVE

Tropical Broadcasting Bands

Kcs.	Megacycle Band	Meter Band
2300-2495	2	120
3200-3400	3	90
4750-5060	4	60

HIGH FREQUENCY BROADCASTING BAND

Kcs.	Megacycle Band	Meter Band
3900- 4000	3.9	75
5950- 6200	6	49
7100- 7300	7	41
9500- 9775	9	31
11700-11975	11	25
15100-15450	15	19
17700-17900	17	16
21450-21750	21	13
25600-26100	25	11

While the majority of the world's broadcasting stations operate within these bands, some operate outside. Most out-of-band operations, however, take place on frequencies adjacent to, or on the edge of the bands allocated for broadcasting.

The Long-Wave band (used in Europe) and the Medium-Wave Band (used worldwide) while allocated mainly for domestic broadcasting, are used also for some international broadcasting to adjacent countries. Although long- and medium-wave stations are normally heard only for moderate distances, long-distance reception is possible over dark transmission paths, mainly during the fall, winter and spring months in the reception area.

The Tropical Broadcasting Bands are assigned for use for domestic broadcasting in tropical areas, where high atmospheric noise levels limit the service area of medium-wave stations. DX reception on these bands is best when the transmission path between the transmitter and receiver is all or mostly in darkness. These bands are used mainly by stations in Latin America, Africa, South and Southeast Asia and Oceania.

The High Frequency Broadcasting Bands, or shortwave bands as they are also called, between 3.9 and 26.1 megacycles (11 and 75 meters) are used for both international and domestic broadcasting. These bands are allocated for worldwide use, except that the 3.9 and 7Mc bands are not allocated for broadcasting in the American area. Also, the 3.90 to 3.95Mc portion of the 75 meter band is used only in Asia and Oceania.

Reception conditions on these bands vary according to the time of day and season of the year. Most of the international broadcasting stations make seasonal changes in frequency usage, mainly on the first Sunday of March, May, September and November. Changes may often be made at other times during the year, due to interference, change of program times, addition of new transmitters, etc. A large percentage of the domestic broadcasting stations operating in the high frequency bands do not make seasonal changes, but some, particularly the stations in India, Pakistan, USSR and South Africa, do make seasonal shifts.

Shortwave, and long-distance medium and long-wave broadcast reception is possible only because of the existence of an electrified region high in the earth's atmosphere. This region, electrified by nature, is called the ionosphere. It is the ionosphere, acting somewhat like a mirror, that reflects radio signals over great distances.

The ionosphere is believed to be caused, at least in part, by ultraviolet radiation given off by the sun. The amount of radiation illuminating the ionosphere varies hourly, seasonally and geographically, depending upon the relationship between the sun and the earth. Reception is usually better on the higher frequency bands (15, 17, 21 and 25Mc) when the sun is more directly overhead or closer to the earth, for example, during the daylight hours, during the winter season, and in tropical or southern regions. Reception in the lower frequency bands (3.9, 6, 7, 9 and 11Mc) is usually better when the sun is lower in the sky, or further from the earth, for example, during the hours of darkness, and in temperate and northern geographical areas.

In addition to hourly, seasonal and geographical changes in reception conditions, there is a year-to-year change over an approximate 11-year cycle.

For reasons not yet fully understood by scientists, this 11-year cycle change appears to result from the difference in the number of sunspots appearing on the face of the sun. When the sun's surface is covered with a great number of spots, the ionosphere is electrically strong and long-distance radio reception is often at its best; when the number of sunspots diminishes, reception becomes poorer. During 1957-61, when the sunspot cycle was at or near its maximum, reception conditions were at their best. During the years 1963-66 there were few sunspots on the face of the sun and reception conditions were considerably poorer.

The present sunspot cycle began during October, 1964 and appears to have reached its peak during November, 1968 with a smoothed sunspot number of 111. Solar activity, therefore, declined during 1969, and is expected to continue to decline steadily, until the cycle ends, probably sometime during 1975.

During 1969, solar activity declined from a smoothed sunspot number of 109 to 97. During 1970 the cycle is expected to decline further, to reach a smoothed sunspot number of approximately 75 by the end of the year. This decline in solar activity is expected to result in some noticeable changes in shortwave reception. By comparison, reception during 1970 is expected to be somewhat below the peak conditions of 1968-1969, but similar to reception experienced during 1967.

The following is a general summary of reception conditions expected on each shortwave broadcasting band during 1970.

25 Mc band (11 Meters)

Less use will be made of this band as the solar cycle declines. During 1970, however, solar activity should still be high enough to permit excellent reception over very long distances during the fall, winter and early spring months. Long-distance reception should fall off during the late spring and summer months, but reception of stations a thousand or so miles away should improve. While somewhat fewer than during 1969, a large number of international broadcast stations are planning to schedule transmissions in the 11 meter band during 1970.

21 Mc band (13 Meters)

Reception of exceptionally strong signals over distances of many thousands of miles, from most areas of the world should be possible during the daylight hours, or when its daylight at one end of the path, and early evening at the other end. Peak reception conditions are expected from early fall through late spring. Long-distance reception is likely to fall off considerably during the summer months, but reception of stations between approximately 600 and 1,300 miles should improve during this season. Almost every international broadcast organization is planning to use this band during 1970, and a very high level of congestion is expected, especially during the winter season.

17 Mc band (16 Meters)

Excellent long-distance reception of stations from all areas of the world should be possible in this band throughout the year from shortly after dawn through the late afternoon and early evening hours. A very high degree of congestion is expected on this band during 1970.

15 Mc band (19 Meters)

During 1970, propagation conditions on this band are expected to continue to be excellent for the reception of both long- and medium-distance stations, from several hundred to several thousand miles away. The band is expected to be full of stations with exceptionally strong signals from shortly after sunrise, through the daylight areas, and into the evening. During the spring and summer months, excellent reception may also be possible during most of the night-time hours as well. Exceptionally long-distance reception is more likely to occur for a short period after sunrise, and again during the late afternoon and early evening hours. With favorable propagation conditions, and with so many stations planning to use this band during 1970, congestion is expected to be greater than in any of the other shortwave broadcasting bands.

11 Mc band (25 Meters)

This should be an excellent band for medium distance reception during the hours of daylight. During this period, at any season of the year, exceptionally strong signals should be possible from stations that are between 500 and 2,000 miles away. Long-distance reception from stations several thousand miles away should be possible for a short period at sunrise, and again during the late afternoon and early evening hours. During the summer months, both medium- and long-distance reception should also be possible during the hours of darkness. Relatively heavy congestion is expected in this band, especially during the late afternoon and early evening hours.

9 Mc band (31 Meters)

Excellent daytime reception over short- and medium-distances on the order of 400 to 1,500 miles should be possible throughout the year on this band. Fairly good long-distance reception over several thousand miles should also be possible from the early evening hours, through the hours of darkness, until shortly after sunrise from early spring through late fall. During the winter months, long distance reception is expected to deteriorate during the hours of darkness. A high level of congestion is expected on this band, especially during the early evening hours.

7 and 6 Mc bands (41 and 49 Meters)

Excellent short-range reception is expected on these bands during the daylight and early evening hours, for distances up to approximately 1,000 miles. During the fall, winter and early spring months, when static levels are low, fairly good medium- and long-distance reception should also be possible from shortly after sunset, through the hours of darkness and until shortly after sunrise. Higher static levels may make long-distance reception somewhat

(continued page 56)

ICELAND
HOFN
AKUREYRI
ICELAND
KEFLAVIK
REYKJAVIK
EDAR
North Atlantic Ocean
North Sea
Baltic Sea
White Sea
Bay of Biscay
The Mediterranean
Ionian Sea
Aegean Sea
Black Sea
Balearic Islands
Sardinia
Sicily
Crete
Malta
SOVIET UNION
NORWAY
SWEDEN
FINLAND
DENMARK
GREAT BRITAIN
IRELAND
HOLLAND
BELGIUM
GERMANY
FRANCE
SWITZERLAND
AUSTRIA
HUNGARY
CZECHO-SLOVAKIA
POLAND
RUMANIA
YUGOSLAVIA
BULGARIA
ALBANIA
GREECE
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ALGERIA
TUNESIA
LIBYA
MOROCCO
AFRICA
TROMSÖ
MURMANSK
ARKHANGELSK
NARVIK
KIRUNA
LULEA
OULU
KAJAANI
PETROSAVODSK
IVANOVO
UMEA
VASAA
LENINGRAD
TRONDHEIM
HELSINKI
TURKU
TALLIN
TARTU
MOSCOW
SMOLENSK
OSLO
STOCKHOLM
RIGA
MADONA
MOGHILEV
VILNIUS
MINSK
GOMEL
KURSK
KAUNAS
BERGEN
GÖTEBORG
KARLSKRONA
KALININGRAD
BARANOVITJI
CHARKOV
KIEV
DNJEPROPETROVSK
STAVANGER
COPENHAGEN
GDAŃSK
TORUN
WARSZAWA
EDINBURGH
GLASGOW
NEWCASTLE
BREMERHAVEN
KIEL
SZCZECIN
LÓDŹ
POZNAŃ
BERLIN
HAMBURG
BREMEN
DUBLIN
BELFAST
LONDON
CARDIFF
BRUXELLES
KÖLN
FRANKFURT
DRESDEN
LEIPZIG
WROCŁAW
KATOWICE
KRAKÓW
LVOV
TJERNOVTSY
KICHINEV
ODESSA
TIRASPOL
VINNITSA
PARIS
ROUEN
NANCY
STRASBOURG
MÜNCHEN
PRAHA
BRNO
BUDAPEST
TIMIŞOARA
BUCURESTI
CRAIOVA
BEOGRAD
NOVI SAD
ZAGREB
LJUBLJANA
TRIESTE
VENEZIA
MILANO
TORINO
GENOVA
BOLOGNA
ANCONA
DUBROVNIK
SARAJEVO
TITOGRAD
SKOPLJE
PRISTINA
SOFIA
THESSALONIKI
ATHENS
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CORFU
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HASTINGS
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DOVER
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ASHFORD
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TUNBRIDGE WELLS
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KINGSTON
WINDSOR
SLOUGH
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KEIGHLEY
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NORTHALLERTON
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REDCAR
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GALASHIELS
SELKIRK
PEEBLES
MOFFAT
LANGHOLM
GRETNA
CARLISLE
PENRITH
KESWICK
COCKERMOUTH
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WHITEHAVEN
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ALSTON
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SOLAR ACTIVITY IN 1970

by Prof. Dr. M. Waldmeier, Zurich.

Sunspot activity was at maximum level throughout 1968 and the first half of 1969. Since July 1969 the activity shows a substantial drop; therefore the maximum of solar activity is certainly over. For the year 1969 the following sunspot-relative-numbers are available up to now:

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.
104	121	138	105	120	102	88	91	81

These numbers show strong fluctuations from month to month. This is especially true for cycles of low and medium activity. After a first peak in May 1968 an even higher peak occurred in March 1969. The smoothed maximum has to be fixed somewhere between these two peaks. As the time of the maximum is based on the smoothed relative-numbers, which are not yet available for 1969, only a provisional estimate can be given: this maximum will be around 1968.7 and the highest smoothed relative-number will amount to about 110. As on the average over all cycles observed hitherto the highest smoothed sunspot-relative-number amounts to 108, the present maximum is one of medium intensity. After the sunspot-minimum 1964 the yearly mean relative-numbers increased to 15 in 1965, to 47 in 1966, to 94 in 1967, and to 106 in 1968. The observed values are in close agreement with the predictions. In the report for "Solar Activity in 1967", written in September 1966, the maximum was predicted to occur 1968.5 and the highest smoothed relative-number to amount to 110.

Now as we are past the maximum further predictions will be even more reliable than on the ascending branch. The decrease of activity will be passing off somewhat more slowly than was the increase. For the year 1969 a mean relative-number of 100 can be expected. In the years to come the decrease of the smoothed monthly sunspot-relative-numbers should take place fairly regularly. In 1970 these numbers should drop from 90 at the beginning to 65 at the end. This decrease will continue up to 1975 when a new minimum of solar activity will be reached.

As in the past, the Swiss Shortwave Service will emit each month the daily sunspot-relative-numbers as well as predictions of the smoothed monthly sunspot numbers for six months ahead. Details for these transmissions are as follows:

English: Mon: 07.50 on 6165/9535/9590/11775kHz, 09.35 on 9665/11760kHz, 10.50 on 15305/17795/21520kHz, 12.20 on 9665/11865 kHz, 14.05 on 15305/17845/21520kHz, 15.50 on 15305/17830kHz, 19.05 on 15305/17795kHz, 20.20 on 6055/9665kHz; Tues: 02.20 on 6120/9535/11715kHz, 05.35 on 6120/9720kHz.

Spanish: Sat: 14.40 on 9665/11865kHz, 16.55 on 21540kHz, 22.10 on 6055/9665kHz; Sun: 01.10 on 9595/11720/15125kHz, 03.55 on 6120/9535/9720kHz.

Dates of transmission in 1970:

Mondays	Tuesdays	Saturdays	Sundays
Jan. 5	Jan. 6	Jan. 10	Jan. 11
Feb. 9	Feb. 10	Feb. 7	Feb. 8
Mar. 9	Mar. 10	Mar. 7	Mar. 8
Apr. 9	Apr. 7	Apr. 4	Apr. 5
May 4	May 5	May 9	May 10
June 8	June 9	June 6	June 7
July 6	July 7	July 4	July 5
Aug. 10	Aug. 11	Aug. 8	Aug. 9
Sept. 7	Sept. 8	Sept. 5	Sept. 6
Oct. 5	Oct. 6	Oct. 10	Oct. 11
Nov. 9	Nov. 10	Nov. 7	Nov. 8
Dec. 7	Dec. 8	Dec. 5	Dec. 6

(from page 54)

more difficult during the late spring and summer months. Always crowded, both bands are expected to be extremely congested during the evening and night time hours of the winter season.

4, 3, and 2 Mc bands (60, 90 and 120 Meters) These bands are used mainly for short-distance reception. During the hours of daylight, stations within a radius of a few hundred miles should be heard well. After sunset, and throughout the hours of darkness, the reception range should increase to at least several hundred miles, and for the more powerful stations, to a thousand miles or more. During the summer months, high static levels are likely to make reception in these bands difficult at times.

For more specific reception information, please refer to the Table of the Most Suitable Meter Bands for 1970 (see page 39).

FINLANDS DX-CLUB INTERNATIONAL
The Friendly DX-club!

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Finlands DX-Club is on the air daily on Radio Finland with a 15-minute programme. To Europe on weekdays at 18.15-18.30 GMT and on Sundays at 16.15-16.30 GMT on 9550, 11805 and 15185 kc/s. To North America daily at 23.15-23.30 GMT on 15185 kc/s. DX-programmes on Wednesdays and Saturdays, Mailbags on Thursdays and Sundays, other days Finnish music and topics.

CENTRAL EUROPE
1:8 Mill.
KM
0 50 100 200 300
North Sea
Baltic Sea
Adriatic Sea
HOLLAND
BELGIUM
LUXEMBOURG
SAAR
GERMANY
POLAND
U.S.S.R.
CZECHO-SLOVAKIA
AUSTRIA
HUNGARY
RUMANIA
YUGOSLAVIA
BULGARIA
FRANCE
SWITZERLAND
ITALY
MONACO
KIEL
LÜBECK
HAMBURG
BREMEN
OLDENBURG
HOOGEZAND
LINGEN
HILVERSUM
HENGELO
LOPIK
MÜNSTER
KLEVE
LANGENBERG
JÜLICH
KÖLN
NORDHELLE
AACHEN
BONN
SIEGEN
KORTRIJK
BRUXELLES
LILLE
HOUDENG
LIEGE
KOBLENZ
EIFEL
MARCHE
LUXEMBOURG
FELSBERG
SAARBRÜCKEN
KAISERSL.
HEIDELBERG
FRANKFURT
MAINZ
WÜRZBURG
NÜRNBERG
HEILBRONN
BADEN-BADEN
STUTTGART
NANCY
STRASBOURG
MÜHLACKER
REUTLINGEN
BAD
DÜRRHEIM
FREIBURG
KIRCHHEIM
SIGMARINGEN
RAVENSBURG
KEMPTEN
BREGENZ
BASEL
BESANÇON
BEROMÜNSTER
SOOL
LAUTERACH
SOTTENS
CHUR
ANNEMASSE
SAVIESE
MONTE CENERI
LYON
AOSTA
GRENOBLE
MILANO
TORINO
VERONA
GENOVA
SAN REMO
MONTPELLIER
MONTE CARLO
MARSEILLE
NICE
PISA
FIRENZE
BOLOGNA
BOLZANO
MERANO
ALDRANS
UDINE
VENEZIA
TRIESTE
KOPER
RIJEKA
LJUBLJANA
ZAGREB
SPLIT
SARAJEVO
NIS
BEOGRAD
NOVI SAD
OSIJEK
PECS
BALATONSZABADY
SZABADSAG
SZOLNOK
KOSSUTH
BUDAPEST
PETÖFI
GYÖR
ORADEA
CLUJ
MIERCUREA
OR. STALIN
TIMISOARA
CRAIOVA
BUCURESTI
KOŠICE
OUCHGOROD
TJERNOVTSY
MISCOLC
NYIREGYHAZA
BANSKÁ-BYSTRICA
BRATISLAVA
WIEN
LINZ
KRONSTORF
SALZBURG
HOLZKIRCHEN
MÜNCHEN
ISMANING
AUGSBURG
LANDSHUT
PASSAU
LANDAU
REGENSBURG
CHAM
ČES. BUDEJOVICE
PLZEŇ
BAYREUTH
RAFENWOHR
CORBURG
HOF
SUHL
SONNEBERG
PLAUEN
KARLOVY VARY
PRAHA
HRADEC KRÁLOVÉ
PARDUBICE
OLOMOUC
JIHLAVA
BRNO
ÚSTÍ N. L.
CHEMNITZ
DRESDEN
GÖRLITZ
COTTBUS
BERNBURG
LEIPZIG
BROCKEN
HARZ
GÖTTINGEN
INSELSBERG
ERFURT
MEISNER
HANNOVER
BRAUNSCHWEIG
POTSDAM
BURG
KÖNIGWUSTERHAUSEN
DEGUEDE
RHEINSBERG
RIAS BERLIN
SCHWERIN
WÖBBELIN
SZCZECIN
GREIFSWALD
HARLOW
KIEL
HEIDE
BREMERHAVEN
N. OSTERLOOG
OSNABRUCK
HERFORD
TEUTOBG. WALD
GDAŃSK
OLSZTYN
TORUN
POZNAN
WARSZAWA
ZIELONA GÓRA
ŁÓDŹ
WROCŁAW
KIELCE
KATOWICE
RZESZÓW
KRAKÓW
OSTRAVA
LVOV
TJERNOVTSY
PARIS
54°
52°
50°
48°
46°
44°
4°
6°
8°
10°
12°
14°
16°
18°
20°
22°
24°
26°

RADIO

EUROPE

ALBANIA

L.T: GMT+1h — **Pr.L:** Albanian.

RADIODIFFUSION TELEVISION ALBANAISE (Gov.)
ADDR: Rue Ismail Quemal, Tirana. **Te:** 3239. **Cable:** Albradio — **L.P:** Dir: Th. Nano. Head Foreign Rel. Dept: K. Xhavara.
STATIONS: 50/100/120/240/500kW.

kHz	m	kHz	m	kHz	m	kHz	m
557	538.6	6097	49.20	7085	42.34	9505	31.56
1088	275.7	6135	48.90	7120	42.13	9780	30.67
1214	247.1	6157	48.72	7265	41.29	11740	25.55
1394	215.2	6195	48.43	7300	41.09	11840	25.34
5060	59.29	6200	48.39	7315	41.01	11860	25.30
5960	50.34	7065	42.46	9390	31.95	11920	25.17

HOME SCE. in Albanian: On 1088/5060//7065kHz: W 04.30-07.00, 11.00-22.00; Sun 05.00-22.00.
FOREIGN SCE:

Albanian

	m.b.
00.00*	41,31
02.00*	41,31
06.00	49,42
10.30	31,25
12.30‡	31,25
13.30	49,42
18.30	49,42

Arabic

03.30	247,42,31
04.30	247,42,31
06.00	42,31
15.30	42,31
17.00	42,31
19.00	247,42,31
20.00	42,25

Bulgarian

03.00	275,42
04.00	275,221,49,42
12.00	247,42
14.00	49,42
15.30	247,49,42
17.00	247,49,42
19.00	49,42
21.00	49,42

Czech

04.00	41,32
06.00	215,41,32
14.00	41,32
15.30	41,32
17.30	41,32
19.00	41,32
21.00	49,41
22.30	215,41

English

00.30*	49,41
01.30*	49,41,31
02.30*	49,41
03.30*	49,41
06.30	42,31
11.00*	31,25
16.30	42,31
18.30	42,31
20.30	215,42,31
22.00	42,31
07.00°	41,31
09.30°	31,25
14.00°	31,25
04.30§	41,31
15.30§	31,25
17.30§	41,31
19.30§	41,31

French

05.00	42,31
14.30	42,31
16.00	42,31
18.00	42,31
20.00	42,31
21.00	215,42,31
22.30	42,31

German

05.00	215,41,32
12.00	41,32
13.30	41,32
15.00	41,32
17.00	41,32
18.00	41,32

German

	m.b.
20.30	41,32
22.00	215,41,32

Greek

03.30	275,42
04.30	221,49,42
13.00	247,49,42,25
14.30	247,49,42
16.30	247,42
19.30	247,49,42

Hungarian

06.30	215,41,32
13.00	41,32
16.00	41,32
20.00	41,32
21.00	41,32
22.00	275,41

Indonesian (to Asia)

23.00	41,31
06.30	221,49,42
12.00	31,25
13.00	31,25
14.30	31,25
18.30	49,42
21.30	49,42

Italian

05.30	221,49,42
11.30	247,42
15.00	247,42
18.00	247,49,42
20.30	49,42
21.30	49,42
22.30	275,42

Polish

05.30	215,41,32
07.30	41
14.30	41,32
16.30	41,32
18.30	41,32
19.30	41,32
21.30	215,41,32
22.30	41,32

Portuguese

07.00	42,31
21.30	31,25
23.30†	42,31
01.00†	42,31
02.00†	42,31
10.00†	31,25

Rumanian

04.00	42,31
13.30	215,31
14.30	42,31
19.00	42,31
21.30	42,31

Russian

23.00‡	49,42,31
00.30‡	49,42,31
01.30‡	49,42,31
03.00	215,49,42,31
04.00	215,49,42,32,31
10.30	31,25
11.30	31,25
12.30	32,25
13.30	49,42,31,25,19
15.00	49,42,31,25,19

Russian

	m.b.
16.30	42,31,25,19
17.30	215,42,31,25,19
18.30	215,42,31,25,19
19.30	42,31,25,19
20.30	42,31,25,19

Serbo-Croat

05.00	221,49,42
12.30	247,42
14.00	247,42
16.00	247,49,42
17.30	49,42

Serbo Croat

	m.b.
20.00	247,42
22.00	49,42

Spanish

05.30	42,31
18.00	31,25
21.00	42,31
23.00	215,49,42
23.30†	49,41,31
01.00†	49,41,31
02.00†	49,41,31
11.30†	31,25
16.00†	31,25

*=to No. America; †=to Latin America; §=to Africa; ‡=to Asia; °=to Australia.
ANN: Albanian: "Ju flet Tirana". Arabic: "Huna Tirana". Bulgarian: "Goveri Tirana". E: "This is Tirana Calling". F: "Ici Tirana". G: "Hier ist Tirana". Greek: "Milun Ta Tirana". I: "Parla Tirana". Czech: "Vola Tirana". Hungarian: "Itt Tirana beszeel". Polish: "Tu mowi Tirana". Portuguese: "Fala Tirana". Rumanian: "Vorbeste Tirana". Russian: "Govorit Tirana". Serbo Croat: "Govori-Tirana". Sp: "Habla Tirana". Indonesian: "Disini Tirana. **V.** by letter.
INT-SIG: 9 notes played on two trumpets.

V. by QSL-card or letter.

RADIO KUKËSI (Gov.)
ADDR: Drejtoria e Radio Kukesit, Kukes. **L.P:** Dir: M. Hoxha — **HOME SCE:** Kukës 6660kHz 45.04m (varies up to 150kc in freq.) 0.2kW — **D.PRGR:** 13.00-14.30, 15.00-20.00.
ANN: "Ju flet Kukësi" — **V.** by letter. Re. in French.

RADIO SHKODRA (Gov.)
ADDR: Drejtoria e R. Shkodrës' Shkodër — **L.P:** Dir: A. Ceno — **STATION:** Shkodër 821.5kHz 36.52m 0.2kW. 13.00kHz 231m 0.2kW — **HOME SCE:** D 05.00-06.30, 13.00-14.00, 16.30-20.00 — **ANN:** "Ju flet Shkodra" or "R. Shkodra" — **V.** by letter. Reports in English and German accepted.

RADIO KORCA
ADDR: Drejtoria e R. Korçes, Korçe — **L.P:** Dir: A. Trebicka. **STATION:** 1349kHz 222m 0.2kW — **HOME SCE:** 12.30-14.15, 16.30-20.00 — **ANN:** "Ju flet Korça".

RADIO GJIROKASTRA
ADDR: Drejtoria e R. Gjirokastres, Gjirokaster — **L.P:** Dir: S. Zerva — **STATION:** 1275kHz 203.4m 0.2kW. **HOME SCE:** 13.00-14.30, 16.00-20.30 — **ANN:** "Ju flet R. Gjirokastra".

ANDORRA

L.T: GMT+1h — **Pr.L:** French, Spanish, Catalan.

RADIO ANDORRA (Priv, Comm.)
ADDR: Direction and Studios: Roc des Anelletes, Andorre la Vieille, Principality of Andorra. **Te:** 20100. **Cable:** Randorra. **Reg. Sce's:** Paseo de Gracia 12, Barcelona. Spain; 18 Blv. Griffoul Dorval, 31 Toulouse, France — **L.P:** Dir. Gen: M. Degoy. Dir. Tec: J. L. Marquet. Dir. Prgr: G. Marquet. French Dept: J. Bonis. Spanish and Catalan Dept: R. Calderer and G. Osorio. Pub. Dept: M. Rodriguez. Listeners' Sce: C. Codina. Inf. Dept: J. Lalanne, J. Debézy, J. P. Imbach.
STATIONS: 701kHz 428m 300kW — 5995kHz 50.04m 25kW.
HOME SCE: 05.00-24.00 — **French:** 05.00-20.00; **French/Spanish:** 20.00-24.00. **N:** On the h.
ANN: French: "Ici R. Andorre". Sp: "Aqui R. Andorra, emisora del Principado de Andorra, Roc de les Anelletes, Andorra la Vieja Principado de Andorra".
INTERNATIONAL SCE:
L.P: Dir. Gen: M. Degoy. Dir. Tec: J. L. Marquet. Prgr: J. Tellez. Publ. Dept: C. Valencia. Listeners' Sce: A. Prat. Supervisor: E. Monzo.
D.Prgr: 21.00-24.00 on 5995kHz. Int. Prgr. for Europe (relay mw-prgr).
ANN: F: "Ici R. Andorre International". E: "This is R. Andorra International". Sp: "Aqui R. Andorra Internacional, emisora del Principado de Andorra". G: "Hier ist R. Andorra".
INT-SIG: Gong low. Open and close down "National

hymn of Andorra" — **V.** by QSL-card or letter. Rp. Recordings accepted — **PUB:** Prgr. schedule (weekly).

SUD RADIO (Radio des Vallées d'Andorre)
ADDR: P.O. Box 7, Andorre-la-Vieille (Principauté d'Andorra). **Te:** 20260. **Cable:** Radioval.
STATIONS: 818kHz 366.8m 300kW — **FM:** 98.9MHz
HOME SCE. in French: 05.00 (Sat 05.30, Sun 06.30)-24.00. **N:** 05.30, 06.00, 06.30, 07.00, 07.30 and every h. on the half until 23.30; Sun 05.30, 06.30, 07.30, 08.30, 09.30, 10.30, 11.30, 18.30, 19.30, 21.10, 22.30, 23.30 — **Wrp:** 21.15, 22.15, 23.15 — **INT-SIG:** "Coucou" (every h). **ANN:** F: "Vous écoutez Sud-Radio" — **V.** by QSL-card and letter. Rp. — **PUB:** Prgr. schedule (weekly).

AUSTRIA

L.T: GMT+1h — **Pr.L:** German — **EC:** a/c 50 (yes).
OESTERREICHER RUNDFUNK (G.m.b.H.)
ADDR: 1041 Wien, Argentinierstr. 30a. **Te:** 656661. **Cable:** Rundfunk — **L.P:** General Intendant: G. Bacher. Kaufmännischer. Dir: H. Lenhardt. Techn. Dir: Dr. G. Skalar. Dir. Prgr's (Radio): Dr. A. Hartner. Dir. Prgr. (TV): Prof. Dr. H. Zilk.
STUDIOS: Steiermark: Zusertalgasse 14a, Graz III. **Cable:** Radio Graz. E. Breisach. **Kärnten:** Sponheimerstr. 13, Klagenfurt. **Cable:** Radio Klagenfurt. Prof. P. Goritschnig. **Oberösterreich:** Obere Donaulände 1, Linz. **Cable:** Radio Linz. A. Schwetz. **Salzburg:** Franziskanergasse 5A. **Cable:** Radio Salzburg. Prof. P. Becker. **Tirol:** Landhaus Neubau, Innsbruck. **Cable:** Radio Tirol. H. Hauser. **Vorarlberg:** Neues Rathaus, Dornbirn. **Cable:** Radio Vorarlberg. Dr. W. Tölzer. **Wien:** Argentinierstr. 30a, Wien IV. **Cable:** Radio Wien. Dr. E. Glaser. **Niederösterr:** H. Hasslinger. **Burgenland:** E. Lassman.

HOME SERVICES

ÖSTERREICH I: 05.00-23.05.
Medium Waves:

	kHz	m	kW		kHz	m	kW
Aldrans I	520	576.9	10	Dobl I	1025	292.7	100
Lienz I	520	576.9	10	Kronstorf I	1025	292.7	100
Liezen I	520	576.9	10	Lauterach I	1025	292.7	10
Klagenfurt I	584	513.7	25	Mariapfarr I	1025	292.7	5
Salzburg I	584	513.7	10				
Wien I	584	513.7	150				

Low Power M.W: (0.05kW): 520kHz: Bludenz, Murau — **584kHz:** Mayrhofen — **944kHz:** Unzmarket — **962kHz:** Ehrwald, Neukirchen, Neumarkt, Eisenerz, Gmünd, Hallstatt, Obervellach, Rauris, St. Anton, Prutz — **1025kHz:** Hermagor, Otz, Kappl, Kitzbühel, Mühlbach, Achenkirch, Scharnitz, Zell am Ziller, Nauders, Radenthein — **1052kHz:** Eisenkappel, Hopfgarten, Längenfeld, Bad Goisern, Gmünd (Nö), Oberwölz, Spittal, Pfunds, Heiligenblut, Hieflau, Neunkirchen — **1088kHz:** Grossarl, St. Lambrecht, Schruns — **1142kHz:** Bad-Aussee, Bad Ischl, Landeck, Reutte, Saalfelden, Abtenau, Schiefling, Neuberg, Mittersill, St. Gallenkirch, Zwettl, St. Gallen, Mallnitz — **1151kHz:** Judenburg (0.1kW) — **1562kHz:** Kötschach, Kufstein, Obdach.

FM:	ch	MHz	kW/ W
Dünserberg I	2	87.6	4
*Königsberg I	2	87.6	30W
*Mugel I	2	87.6	20
Gschwandkopf I	2	87.7	0.1
*Tressenstein I	3	87.8	10W
*Rauchkofel I	8	89.35	1
*Luxkogel I	9	89.6	0.2
*Sonnwendstein I	11	90.4	2.5
*Himberg I	12	90.7	3W
*Gaisberg I	13	90.8	100
*Gemeindealpe I	13	90.8	50W
*Hartberg I	13	90.8	10W
*Schöckl I	14	91.2	100
Gundkopf I	15	91.4	0.1
Reitherkogel I	15	91.5	10W
*Hahnbaum I	16	91.8	0.1
*Kahlenberg I	16	91.9	50
*Stubnerkogel I	17	92.1	0.1
*Schmittenhöhe I	18	92.4	40W
Patscherkofel I	18	92.5	50
*Breitenstein I	19	92.6	0.1
*Wachberg I	19	92.7	1
*Residenzberg I	21	93.3	50W
*Salberg I	21	93.4	20W
*Dobratsch I	23	93.8	0.15
*Langmoosalm I	23	93.8	0.1
*Plackles I	24	94.2	10W
*Hauser Kaibling I	24	94.3	4
*Koralpe I	32	96.7	0.1
*Jauerling I	33	97.0	100
*Katrin I	34	97.2	0.6
*Steinkamperl I	34	97.2	10W
*Lichtenberg I	35	97.5	100
Pfänder I	37	98.2	50
Burgstall I	39	98.8	10W
*Pyramidenkogel I	47	101.2	10

N, Wrp: 05.00, 06.10, 07.00, 07.45 (English and French), 09.00, 11.30, 13.45, 16.00, 16.10, 18.00, 21.00, 22.00, 23.00; Sun 06.00, 07.00, 07.05, 08.00, 12.00, 12.10 (English and French), 16.00, 18.00, 21.00, 22.00, 23.00.

ÖSTERREICH II: 04.00 (Sun 05.00)-23.05.

M.W:	kHz	m	kW
Aldrans II	629	476.9	25
Lauterach II	629	476.9	25
Lienz II	629	476.9	1
Klagenfurt II	728	412.1	25
Salzburg II	773	388	1
Linz II	890	337.1	20
Graz II	1394	215.2	25
Wien II	1475	203.4	150

Low Power Mw's (0.05kW exc. where indicated):
566kHz: Bad Ischl, Feistritz (0.1), Griefenburg, Mühlbach, Radstadt, Neukirchen — **674kHz:** Aigen, Bischofshofen, Bleiburg, Gloggnitz, Hieflau, Neumarkt, Martrei, Ried, Radenthein — **773kHz:** Bad St. Leonhard, Hermagor, Lend, Mariazell, Oberdrauburg, St. Michael/Lungau, Leoben (0.1), St. Gallenkirch, Mittersill, St. Anton, St. Lambrecht, Prutz, St. Gallen, Heiligenblut, Mallnitz — **1052kHz:** Neunkirchen — **1124kHz:** Bruck/Mur (0.1), Eisernerz, Hofgastein, Imst, Krems, Kufstein, Mayrhofen, Tamsweg, Gmünd, Mürzzuschlag (0.1), Villach (0.1), Obervellach, Rottenmann, Obdach — **1313kHz:** Kappl, Kindberg, Ehrwald, Friesach, Haslach, Knittelfeld (0.1), Liezen, Völkermarkt, Wolfsberg, Murau, Otz, Trieben, Kötschach (0.1), Mariapfarr, Hallstatt, Rauris — **1394kHz:** Admont, Bludenz, Zell/See, Oberwölz, Neuberg, Längenfeld, Hopfgarten, Bad Goisern, Zell am Ziller, Achenkirch, Gmünd (Nö), Nauders, Scharnitz — **1457kHz:** Amstetten, Eisenkappel, Schruns, Spittal/Drau (0.2), Judenburg (0.1), Pfunds — **1475kHz:** Saalfelden, Schwarzach, Windischgarten, Wörgl — **1484kHz:** St. Pölten (0.2) — **1493kHz:** Kitzbühel, Landeck, Reutte, Unzmarkt — **1546kHz:** Abtenau, Bad Ausse, Scheifling, Silian, Grossarl — **1594kHz:** Braunau, Feldkirchen, Zwettl.

FM:	ch	MHz	kW/ W
Dobratsch II	11	90.4	0.15
Salberg II	14	91.1	0.02
Tressenstein II	15	91.3	0.01
Jauerling II	15	91.4	100
Katrin II	18	92.5	0.6
Königsberg II	20	93.1	0.03
Mugel II	21	93.2	20
Gschwandkopf II	21	93.3	0.1
Pfänder II	21	93.3	50
Luxkogel II	23	93.9	0.2
Kulmeralpe II	24	94.1	0.25
Koralpe II	25	94.5	0.1
Steinkamperl II	26	94.7	0.01
Gaisberg II	26	94.8	100
Reitherkogel II	26	94.9	0.01
Gundkopf II	27	95.1	0.1
Lichtenberg II	27	95.2	100
Schöckl II	28	95.4	100
Sonnwendstein II	29	95.8	2.5
Dünserberg II	30	96.0	4
Wachberg II	30	96.1	1
Gemeindealpe II	31	96.2	0.05
H. Kaibling II	31	96.3	4
Himberg II	31	96.3	3W
Stubnerkogel II	31	96.3	0.1
Patscherkofel II	31	96.4	50
Breitenstein II	32	96.6	0.1
Schmittenhöhe II	32	96.6	0.04
Residenzberg II	32	96.7	0.05
Burgstall II	33	96.8	0.01
Hartberg II	33	96.8	0.01
Stolzalpe II	33	96.8	0.03
Hahnbaum II	34	97.2	0.1
Plackles II	35	97.6	0.01
Kauntertal	36	97.8	0.04
Pyramidenkogel II	36	97.8	10
Kahlenberg II	36	97.9	50
Langmoosalm II	38	98.4	0.1
Rauchkofel II	41	99.3	1

N, Wrp: W 04.00, 05.30, 07.00, 09.00, 11.55, 15.00, 19.00, 21.00, 22.00, 22.10; Sun 05.30, 7.00, 11.30, 16.00, 19.00, 21.00, 22.00, 22.10.

ÖSTERREICH III: 05.00-23.05.

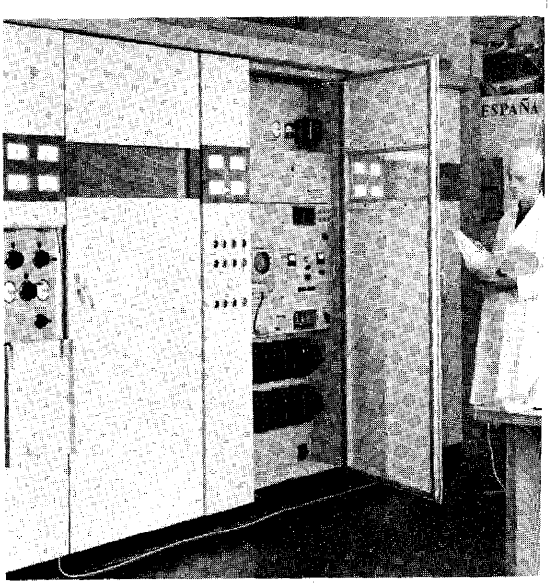
FM:	ch	MHz	kW/ W
*Breitenstein III	2	87.7	0.1
*Himberg III	3	87.8	3W
*Kulmeralpe III	3	88.0	0.25
*Katrin III	4	88.1	0.6
*Hahnbaum III	4	88.2	0.1
*Sonnwendstein III	4	88.2	2.5
*Patscherkofel III	5	88.5	50
*Stubnerkogel III	5	88.5	0.1
*Hartberg III	5	88.6	0.01
*Lichtenberg III	6	88.8	100
*Schmittenhöhe III	6	88.8	0.04
*Burgstall III	7	89.0	0.01
*Residenzberg III	7	89.2	0.05
*Schöckl III	7	89.2	100
*Jauerling III	8	89.4	100
*Pfänder III	9	89.7	50
*Langmoosalm III	9	89.8	0.1
*Gemeindealpe III	19	92.8	0.05
*Pyramidenkogel	19	92.8	10
Rauchkofel III	30	95.9	1
*Gschwandkopf III	37	98.0	0.1
*Wachberg III	37	98.2	1
*Königsberg III	38	98.5	0.03
*Salberg III	38	98.5	0.02
*Mugel III	39	98.7	20
*Dünserberg III	40	98.9	4
*Gaisberg III	40	99.0	100
*Gundkopf III	40	99.0	0.1
*Reitherkogel III	40	99.1	0.01
*Steinkamperl III	41	99.4	0.01
*Tressenstein III	42	99.6	0.01
*Luxkogel III	42	99.7	0.2
*Stolzalpe III	43	99.8	0.03
*Kahlenberg III	43	99.9	50
*Dobratsch III	44	100.3	0.15
*H. Kaibling III	46	100.7	4

*Stereo.

Philips' broadcasting stations
can be found all over the globe.
That is a well-known fact.
A chronological reference list
covers the years from 1921.
An alphabetical list however
shows some gaps.
We hope to fill these one day.

PHILIPS

What's lacking is the



Some broadcasting references

Abu Dhabi	Finland	Mauritius	Spain
Argentina	France	Mexico	Sudan
Australia	Guyana	Morocco	Surinam
Austria	Holland	Mozambique	Sweden
Belgium	India	Netherlands	Tanzania
Bolivia	Indonesia	Antilles	Thailand
Cambodja	Iraq	Nicaragua	Vatican State
Ceylon	Ireland	Norway	Venezuela
Chile	Italy	Pakistan	Western
Colombia	Laos	Peru	Germany
Denmark	Libya	Portugal	Zambia
Ecuador	Madeira	Rhodesia	

# of Qatar

What has never lacked is Quality. In all our products and all our services. Philips' reputation for design, reliability and after-sales service dates back to 1921 (the year in which our first broadcast went on the air).
Philips engineers survey, plan and install entire systems, whether it consists of a simple audio amplifier or a complete broadcasting network including studios. They did so from polar circle to equator. From Abu Dhabi up to Zambia.

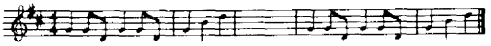
PHILIPS

Philips' sound broadcasting programme includes:
- MW transmitters: 10-300 kW
- SW transmitters: 10-300 kW
- VHF FM transmitters: suitable for stereo operation
- aerial equipment
- studio equipment
- ancillaries

For more information, write to our local representative or to NV Philips' Telecommunicatie Industrie, P.O. Box 32, Hilversum, The Netherlands

ANN: "Hier ist Österreich 1, Studio (Wien, Niederösterreich, Tirol . . .)"; "Hier ist Österreich Regional, Studio . . ."; "Österreich III".
INT-SIG: Österreich I: From the Austrian National Anthem.

Österreich Regional: Extract from ballet music from "Rosamunde" by Franz Schubert:



Österreich III: Electronic Music:

PUB: "Radio Österreich", weekly — **FI:** By licence payments and adv — **AD:** Prgr. I: 67 min's per day; Prgr. Regional: 49 min's per day; Prgr. III: 80 min's per day — **ALF:** Ö.Sch. 240,-.

SHORT WAVES:
Stations: Moosbrunn 4×100kW (16.28E/48.00N). Aldrans 6000kHz 1kW (11.27E/47.15N).

kHz	m	kHz	m	kHz	m	kHz	m
6000	60.00	9770	30.71	15145	19.81	17780	16.87
6155	48.74	11785	25.46	15200	19.74	17855	16.80
7245	41.41	11860	25.30	15210	19.72	17880	16.78
9525	31.50	11875	25.26	15410	19.47	21670	13.84
9610	31.22	11925	25.16	17715	16.93		

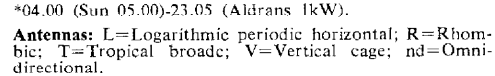
Areas: I=Europe; II=No. Europe; III=Ea. Europe; IV=So. Ea. Europe; V=So. Europe/No. Africa; VI=West-Europe; VII=Europe/No. Africa/Middle East; VIII=No. America; IX=No. America (East); X=Ce. America; XI=So. America (East); XII=So. Africa; XIII=East Africa; XIV=Middle East; XV=So. East Asia; XVI=Australasia; XVII=East Asia.

Schedule: 2/11-69—1/3-70

Area	Times	kc/s	Antenna/Beam	
I	04.00-23.05*	6000	T	nd
II	20.00-22.00	11925	L	0°
III	10.00-12.00	9770	L	70°
IV	04.00-07.00	7245	L	130°
V	13.00-15.00	11785	L	200°
VI	07.00-09.00	7245	L	270°
VII	05.00-13.00	6155	V	nd
	09.00-13.00	7245	V	nd
	13.00-17.00	9770	V	nd
	15.00-17.00	11785	V	nd
	17.00-22.00	6155	V	nd
	20.00-22.00	7245	V	nd
VIII	23.00-04.00	6155	L	303°
IX	23.00-04.00	9770	R	303°
X	00.00-02.00	15145	R	270°
XI	23.00 02.00	9525	R	236°
	02.00-04.00	11875	R	236°
	18.00-21.00	15210	R	236°
XII	08.00-10.00	17855	R	175°
	16.00-18.00	17880	R	175°
XIII	18.00-20.00	15200	L	155°
XIV	06.00-10.00	15410	R	123°
	17.00-20.00	9610	R	123°
XV	04.00-06.00	17715	R	90°
	14.00-16.00	17780	R	90°
XVI	10.00-12.00	17855	R	90°
XVII	06.00-08.00	21670	R	56°
	12.00-14.00	11860	R	56°

*04.00 (Sun 05.00)-23.05 (Aldrans 1kW).

Antennas: L=Logarithmic periodic horizontal; R=Rhombic; T=Tropical broadc; V=Vertical cage; nd=Omnidirectional.
N: In German every h on the h.
N. in English and French: 07.45 (Sat), 09.09 (Mon-Fri), 12.10 (Sun) — **For Hams and Dxers (in German):** Sun 19.15 (fortnightly).
ANN: "Hier ist der Kurzwelliendienst des Österreichischen Rundfunks" — **INT-SIG:** "An der schönen blauen Donau" Waltz by Joh. Strauss.



V. by QSL-card; rep. of reception and rec. will be appreciated by Austrian Radio, SW-Service, P.O. Box 700, A-1041 Vienna. Report sheets available. Latest schedule free on request.

OSTERREICHISCHER VERSUCHSSENDER-VERBAND (Intern. Amateur Radio)
ADDR: Hugo-Wolfgasse 31, A-2380 Perchtoldsdorf.
Studio: Ketzergasse 59, A-1234 Wien. **Te:** 6710054.
L.P: Gen. Mgr: Karl F. Sanz. St. Mgr: F. Sprinzel. Dir. Tec: G. Bärnat.
STATIONS (OE3XNB): 0.5kW: 3678kHz 81.57m — 7040kHz 42.61m.
D.PRGR: Sat 13.00-13.30 on 3678kHz; Sun 10.00-10.30 on 7040kHz — **V.** by QSL-card or letter. Rec. acc.

SCHULUNGSSENDER DES OSTERREICHISCHEN BUNDESHEERES
ADDR: Gussriegelstrasse 45, A-1100 Wien.
STATION: OEY21 6255kHz 47.96m.
D.PRGR: *in German:* 11.00-12.00 News, information of general interest, Music. **V.** by QSL-card.

AZORES

L.T: GMT−1h — **Pr.L:** Portuguese — **EC:** a/c 50 (no).

EMISSOR REGIONAL DOS ACORES (Gov.)
ADDR: Av. Gasper Fructuoso, Ponta Delgada, S. Miguel. **Te:** 22624.
STATIONS: 836kHz 358.9m 1kW — CSA97 4865kHz 61.66m 1kW.
FM: 97.9MHz 0.05kW.
HOME SCE: 10.00-17.00, 18.45-23.00 — **N:** 14.30, 22.30.
ANN: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Açores da Emissora Nacional" — **INT-SIG:** Chimes. **V.** by letter or QSL-card.

EMISSORA DO CLUBE ASAS DO ATLANTICO (Comm.)
ADDR: Aeroporto de Santa Maria. **Te:** 285. **Cable:** Asas Asmaria. **L.P:** Pres: Dr. J. Salgueiro Pessoa, Dir. Tec: J. Ribeiro, A. Sarmento, C. Carvalho.
HOME SCE: CSB81 1570kHz 191m 1kW: W 12.00-16.00, 19.00, 02.00; Sun 11.00-02.00. **N:** 13.00, 21.00, 22.00. **Wrp:** 14.00, 16.00, 19.00, 02.00.
ANN: "Estacão Emissora do Clube Asas do Atlântico". **V.** by QSL-card or letter — **INT-SIG:** Opens with music played on a Portuguese string instrument (Viola) and guitar.

R. CLUB DE ANGRA (Comm.)
ADDR: Rua Conselheiro N.A. de Bettencourt, Angra do Heroismo Terçeira. **Te:** 219. **Cable:** Radioclub.
STATION: CSB80 1394kHz 215.2m 1kW.
HOME SCE: W 07.00-10.00, 12.00-14.00, 17.30-24.00; Sat 07.00-10.00, 12.00-24.00; Sun 07.00-24.00.
N: 07.30, 08.45, 13.00, 18.00, 22.50.
ANN: "Aqui estação CSB80 de R. Club de Angra (A Voz da Terçeira)" — **INT-SIG:** Viola — **V.** by letter. Rec. acc.

BELGIUM

L.T: GMT+1h — **Pr.L:** French, Dutch, German.

RADIODIFFUSION-TELEVISION BELGE (R.T.B.) — BELGISCHE RADIO EN TELEVISIE (Gov.)
ADDR: Place Eugène Flagey 18, Bruxelles 5. **Cable:** RTB or BRT. **Te:** 496050 — **L.P:** Emissions françaises: Dir. Gen: R. Wangermée. Prgr. Dir. (sound): M. Hankard. Prgr. Dir: (TV): L. P. Kammans — **Nederlandse uitzendingen:** Dir. Gen: P. Vandenbussche. Prgr. Dir. (sound): C. Mertens. Prgr. Dir. (TV): B. Janssens. **Services Communs. Gemeenschappelijke diensten (common sce's):** Tec. Dir. Gen: G. de Lafonteyne. Dep. Tec. Dir: E. Dekeyser. Adm. and Finance Dir. Gen: F. Hoosemans — **International Sce's:** Exec. Dir: F. Zoete. **German Prgr:** Head: Mad. Janetzky — **Cultural Services** (including Foreign Relations): Dir: L. Wallenborn.

HOME SERVICE

FRENCH NETWORK

Bruxelles I (Nat.)	620kHz 483.9m	150kW (Wavre)
	1043kHz 288m	10kW (Aye)
Bruxelles IV (Reg.)	1124kHz 266.9m	10kW (Aye, Houdeng)*
	1484kHz 202.2m	5kW (Liège)*

	MHz	kW		MHz	kW
Anlier (Nat.)	87.6	10	Bruxelles (3.prgr.)	96.1	2
Houdeng (Reg.)*	92.3	50	Houdeng (3.prgr.)	96.6	50
Ougrée (Reg.)*	90.5	50	Liège (3.prgr.)	99.5	10
Anlier (Reg.)*	91.5	100	Anlier (3.prgr.)	94.1	10

*Prgr's from studios in Mons, Namur, Liège.

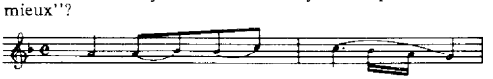
FM: Ougrée: 88.5MHz 10kW German Prgrs.
620kHz (rel. on FM 87.6MHz): W 05.30-22.47 (Sat 23.00), Sun 05.30-23.00.
N, Wrp: 05.30, 06.00, 06.30, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 21.00, 22.00, 22.45, 23.00 (Sat/Sun).
1124kHz (rel. on FM 92.3/90.5/91MHz): 05.30-22.00 (Sat 23.00).

DUTCH NETWORK

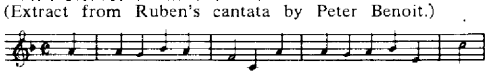
Brussels II (Nat.)	926kHz	324.0m	150kW (Wavre)
Brussels III (Reg.)	1484kHz	202.2m	0.5kW (Kortrijk)
	1511kHz	198.5m	20kW (Veltem)
	1594kHz	188.2m	5kW (Bredene)

FM	MHz	kW	FM	MHz	kW
Aalter	95.7	10	Veltem (3.prgr.)	89.5	50
Veltem*	93.7	50	Aalter (3.prgr.)	90.4	10
Genk*	97.9	10	Genk (3.prgr)	89.9	10
Aalter*	98.6	50			

*Prgr's from studios in Kortrijk, Ghent, Hasselt, Antwerp, Brussels.
926kHz (rel. on FM 95.7MHz):
First Prgr: Mon-Thurs 05.30-21.30 on 926/1594kHz+FM 89.5/89.9/95.7MHz; Fri 05.30-18.30 on 926/1594kHz+FM 89.5/89.9/95.7MHz, 18.30-23.00 on 926/1594kHz+FM 95.7MHz; Sat/Sun 05.30-23.00 on 926/1594kHz+FM 95.7MHz.
N, Wrp: 05.30, 06.00, 07.00, 08.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 18.00, 21.00, 21.55 (Sat, Sun 22.00).
Wrp: 05.30, 07.00, 11.40.
Second Prgr: D 05.30-23.00 on 1484/1511kHz+FM 93.7/98.6/97.9MHz.
Third Prgr: Mon-Thurs 21.30-23.00 on 926/1594kHz+FM 89.5/89.9/90.4/95.7MHz; Fri 18.30-23.00 on FM 89.5/89.9/90.4MHz; Sat/Sun 08.30-23.00 on FM 89.5/89.9/90.4MHz.
ANN: F: "Radiodiffusion-Télévision Belge". **Dutch:** "Belgische Radio en Televisie". **G:** "Belgischer Fernseh-Rundfunk" — **INT-SIG:** Xylophone. **Fr. Network:** Extract from Grétry's famous melody "Oú peut-on être mieux"?



Dutch Network: The first movement of "Beiaardlied". (Extract from Ruben's cantata by Peter Benoit.)



V. by QSL-card or letter. Recordings accepted — **ALF:** B. frcs. 204,- (radio only). Combined Radio and TV: B. frcs. 960,-.

INTERNATIONAL SERVICE

ADDR: "La Voix de l'Amitie", B.P.26, Bruxelles 1. **Te:** 496050 — **L.P:** Exec. Dir: F. Zoete. Dep. Dir: M. Swaenepoel. Heads: Shortwave Dept: J. Vandenbranden, M. Depré, J. Mertens; Transcription: W. Sanders.
STATIONS: ORU3/ORU4 100kW, ORU5 20kW.
G.C: 04.34E/50.44N.

kHz	m	kHz	m	kHz	m	kHz	m
6010	49.92	9740	30.80	17795	16.86	21525	13.94
6125	48.98	11715	25.61	17860	16.80	21590	13.90
9550	31.41	15335	19.56	21510	13.94		

Abbreviations: A=French/Dutch; B=French/Dutch/Congolese; C=Congolese; I=Africa; II=No. America; III=So. America; IV=So. Europe; V=Far East — Freq's in bold type **100kW**, others 20kW.

Times	L	Area	kHz
10.00-12.00	B	I	**21510/17860**/21590
12.15-13.00a	A	V/IV	**21525/17860**/15335
13.30-14.30(Sat)b	C	I	**11715/17860**/9740
13.30-17.00(Sun)b	A	I	**21525/17860**/6010
14.45-15.45(W)e	A	I	**11715/6010**/17860
16.00-17.15(W)	C	I	**9740/17860**/15335
17.15-18.30	C	I	**11715**
17.15-18.30	A	I	**17860**/15335
18.30-21.00c	A	I	**9740/17860**/6010
21.15-23.00d	A	III	**11715/9550**/9740
23.15-01.00d	A	II	**11715/6125**/9740

a) for missionaries and seamen (alternately in French and Dutch); b) Sat (Congolese), Sun (Sport, French/Dutch); c) for Belgians and Africans; d) for Belgian seamen and Belgians in the world, alternately in French and Dutch: e) for Belgians in Europe.
N: French: 10.30, 11.30, 15.00, 17.15, 19.30, 21.40, 00.25. **Dutch:** 10.15, 11.40, 15.20, 17.22, 19.00, 21.15, 24.00. **Prgr. in English:** 22.05, 00.50.
ANN: "Ici Bruxelles, Radiodiffusion-Télévision Belge, Emissions Mondiales". Dutch: "Hier is Brussel, de Belgische Radio en Televisie Wereldomroep".
SIGNALS: Starting: Xylophone — **INT-SIG:** Gevaerts "Vers l'avenir". The signal at the start of each broadcast: "Oú peut-on être mieux". Closing: Belgian National Anthem — **V.** by QSL-card. Recordings accepted.

BULGARIA (People's Rep. of)

L.T: GMT+2h — **Pr.L:** Bulgarian — **EC:** a/c 50 (yes).

BULGARIAN RADIO AND TELEVISION (Gov.)

ADDR: Bulgarian Broadcasting at the Committee of Culture and Art, 4 Bd. Dragan Tsankov, Sofia. **Te:** 872101. **Cable:** Bulgarradio. **Telex:** 541 — **L.P:** Dir. Gen: T. Stojanov. Dir. Tec: G. Georgiev. Dir. Radio: R. Kamenski. Head, Foreign Relations: I. Milkov. Chief, Foreign Rel: V. Kraichev. Dir. TV: L. Mileva.

HOME SCE:

	kHz	m	kW		kHz	m	kW
Sofia I	593	505.9	200	Varna	1124	266.9	10
Plovdiv	746	402.1	30	Kardjali	1160	258.6	30
Stolnik	773	388.1	30	Shumen	1160	258.6	30
Sofia II	827	362.7	100	Stara Zagora	1223	245.3	30
Blagoevgrad	863	347.6	30	Sofia III	7670	39.11	15

1st Prgr: 03.25-07.00 on 593/746/773/863/1124/1223kHz, 07.00-20.30 on 593/746/773/863/7670/kHz; 20.30-22.10 on 593/746/773/863/1124/1160/1223kHz.
N: 03.30, 04.30, 06.00, 07.00, 08.00, 09.00, 10.30, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.30, 20.30, 22.00.
2nd Prgr: 07.00-20.30 on 827/1124/1223kHz. **N:** 08.30, 10.00, 14.30, 16.30.
1st Prgr. is aired over 4 FM st's (Sofia I, Mt. Botev I, Plovdiv, Sl. Brjag).
2nd Prgr. is aired over 4 FM st's (Sofia II, Mt. Botev II, Varna, Sl. Brjag).

FOREIGN SERVICE

STATIONS (G.C: 23.20E/42.40N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
827	362.7	100	7255	41.35	50	11765	25.50	50
1160	259.3	30	7670	39.11	15	11970	25.06	50
5990	50.08	50	9560	31.38	50	15310	19.60	100
6070	49.42	100	9620	31.19	50	17800	16.85	50
6245	48.04	120	9700	30.93	120	17825	16.84	50

TO EUROPE/N. EAST

Arabic	kHz
04.00-04.30	827,6070,7670, 9560,11765
04.30-05.30a	827,6070,7670, 9560,11765
11.30-11.55	9700,11765, 15310
17.00-17.55	9700,11765, 15310
20.00-20.30	1160,6245, 7670,9620
Bulgarian	
05.00-05.30c	827,6070,7670, 9560
06.30-07.30	827,6070,7670, 9560
11.00-11.10	9700,11765, 11970
21.00-21.30	827,7670
22.00-22.10	7670,9560, 11765,17825
English	
19.30-20.00	6070,9700
21.30-22.00	6070,9700
00.00-01.00b	9700
Esperanto	
20.05-20.30a	5990
23.30-23.55a	6070,9560
French	
19.00-19.30	6070,9700
21.00-21.30	6070,9700
German	
20.00-21.00	6070,9700
Greek	
04.30-05.00	827,6070,7670, 9560
05.30-06.30a	827,6245,9560
06.00-06.30c	827,1160,6070, 7670,9560
09.00-10.00a	9700,11765, 11970
12.00-12.30c	1160,6070, 7255, 9700

Greek	kHz
16.30-16.55	6070,7255, 9700
19.00-19.30	6245,7670
20.30-21.00	827,6245,7670
Italian	
18.00-18.30	6070,7255, 9700
20.30-21.00	5990,9620
22.00-22.30	827,6070,9700
Serbo-Croat	
06.30-07.00c	827,6070,7670
07.30-08.30a	827,6070,7670
14.00-14.25	6070,9700
21.30-22.00	827,7670
Spanish	
22.30-23.00	7255
00.00-00.30	7255
Turkish	
05.30-06.00c	827,719,1160, 6070,7670, 9560
05.30-06.30a	719,1160,6070 7670
10.00-11.00	1160,9700, 11765,11970
16.00-16.30	1160,6070, 9700
18.30-19.00	6245,7670, 9700
19.30-20.00	1160,6245, 7670

TO AFRICA

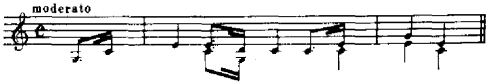
English	kHz
19.05-19.30*	15310,17825
21.05-21.30†	9560,11765, 17825
French	
19.30-20.00*	15310,17825
21.30-22.00†	9560,11765, 15310,17825

*)=to East Africa
†)=to West Africa

TO NORTH AMERICA	
Bulgarian	**kHz**
23.30-24.00	9700
01.00-01.30	9700
English	
00.00-01.00	9700
04.00-04.30	9700
Spanish	
04.30-05.00	9700

TO SOUTH AMERICA	
Bulgarian	**kHz**
23.00-23.25	7255,9560, 11765,15310
00.30-01.30	7255,11765, 15310
Spanish	
22.30-23.00	7255,9560, 11765
00.00-00.30	7255,11765
02.00-02.30	11765

a) Sun only; b) Concert (also for No. America); c) exc. Sun. **DX-PRGR: English:** Fri 19.30-21.30 (to Gt. Britain); Sat 00.00, 04.00 (to USA); **German:** 1st & 3rd Sun 20.00. **ANN:** Home Sce: "Govori Sofia". Foreign Sce: "This is Sofia, Bulgaria calling". F: "Ici Sofia, Radiodiff. Télévision Bulgare". Tu: "Burasi Sofia radiosu". Gr: "Milai Sofia". G: "Hier spricht Sofia Bulgarien". I: "Qui é Sofia". Arabic: "Huna Sofia". Sp: "Habla Sofia". **INT-SIG:** Youth March played on organola.



V. by QSL-card or letter. Rec. acc — **PUB:** Prgr. schedule — **AD:** 13.30-14.00 — **ALF:** Levas 5.-

CYPRUS

L.T: GMT+2h — **Pr.L:** Greek, English, Turkish, Armenian.

CYPRUS BROADCASTING CORPORATION (Gov, Comm.)

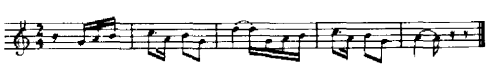
ADDR: P.O. Box 1824, Nicosia. **Te:** 22231. **Cable:** Broadcasts. **Telex:** 2333 — **L.P:** Dir. Gen: A. Christofides. Dep. Dir. Gen: I. Hadjiossif. Chief Eng: P. T. Astreos. Head of R. Prgr: Ch. Papadopoulos. Head Comm. Div: D. Kyprianou.

STATIONS	kHz	m	kW		kHz	m	kW
Nicosia	602	498.3	20	Paphos	917	327.2	2
Nicosia	692	433.5	20	Limassol	1484	202.2	0.5

HOME SCE: Greek on 692/917/1484kHz: D 04.00-22.05. **N:** 04.30, 05.30, 08.00, 10.00, 11.30, 13.00, 15.00, 17.30, 19.00, 20.00, 22.00. **Greek** on 602kHz: Sun 06.00-10.00, D 19.00-21.00 — **Turkish** on 602kHz: 04.30-06.00, 10.00-11.30, 14.00-17.30. **N:** 05.30, 11.15, 16.45 — **English** on 602kHz: 06.00-07.00 (ex. Sun), 11.30-12.30 (Sun/Wed 13.00), 17.30-19.00. **N:** 06.30, 12.00, 17.45 — **Armenian:** Sun/Wed 13.00-14.00. **N:** 13.15 (Sun).

OVERSEAS SCE: Greek to Britain: 09.00-16.00 (Sun), 19.00-21.00 (D) on 11745/15260 or 17875kHz.

ANN: Greek: "Radiofonikon Idryma Kyprou". Turkish: "Burasi Kibris Radio Yayin Korporasyonu" — **INT-SIG:** Avkoritissa played on Guitar:



V. by letter. Recording accepted — **ALF:** £1/5/0. **FI:** Go. subsidized, Comm. adv. income — **AD:** 30 min d. — **E.C:** a/c 50 (yes).

BRITISH FORCES BROADC. SCE. CYPRUS

is operated by the Ministry of Defence to provide a sce. of information, entertainment as well as a link with home for H.M. Forces in Cyprus. It is non-comm, does not accept adv.

ADDR: B.F.P.O. 53, Cyprus — **L.P:** St. Contr: R. W. Morgan. Eng-in-Charge: M. E. Townley.

STATIONS: Nicosia 1502kHz 199.7m 1kW — Limassol 890kHz 337.0m 7.5kW — Akrotiri 92.1MHz 20kW — Dhekelia 99.6MHz 20kW — Nicosia 89.9MHz 0.05kW — Famagusta 96.4MHz 0.05kW.

D.PRGR: W *03.45-08.30, 10.30-21.09* (Sat 22.00); Sun 05.30-21.09.

N: 04.00 (W), 05.00 (W), 06.00 (Sun), 07.00 (W), 11.00 (Sun), 16.00, 18.00, 21.00 — **Wrp:** 04.09 (W), 04.58 (W), 06.09 (Sun), 07.09 (W), 16.09 — **Rlg:** 04.10 (W), 07.10 (W), 06.15 (Sun) — **ANN:** "This is the British Forces Broadc. Sce. Cyprus" — **V.** by QSL-card — **PUB:** Prgr. schedule free. Rp.

BBC EAST MEDITERRANEAN RELAY (100kW)

kHz	m	kHz	m	kHz	m	kHz	m
638	470.5	7120	42.13	11720	25.60	15435	19.44
719	417.2	7140	42.02	11905	25.20	17885	16.78
1421	212.4	7260	41.32	11910	25.19	21610	13.88
5990	50.08	9600	31.25	11955	25.09	21660	13.85
6010	49.92	9625	31.17	15105	19.86		
6050	49.59	9650	31.09	15235	19.69		
6120	49.02	9690	30.96	15420	19.46		

Relays of BBC Arabic & Persian Services and World Service on medium wave 638, 719 and 1421kHz.
Full details of tr's on mw and sw are included in the BBC schedule under Great Britain.

CZECHOSLOVAKIA

L.T: GMT+1h — **Pr.L:** Czech, Slovak — **EC:** a/c 50 (yes).

CESKOSLOVENSKY ROZHLAS (Gov.)

ADDR: Czechoslovak Radio, Praha 2, Vinohradska 12. **Cable:** Radiopraha. **Te:** 2115 — **L.P:** Dir. Gen: Ing. B. Chnoupek. Dir. Czech Radio and Dep. Dir. Gen: Dr. K. Hrabal. Dir. Slovak Radio: Dr. M. Marko. Dir. Foreign Sce: Dr. V. Vipler. Chief Asst. to Dir. Gen: Ing J. Fleigr. Dir. Foreign Rel. (Czech Radio): (vacant). Dir. of Foreign Rel. (Slovak Radio): L. Riabinina (ag.).

HOME SCE: MEDIUM WAVES:

Location	kHz	m	kW	Prgr.
Uher Hrasdiste	272	1102.9	200	CS
Praha	638	470.2	150	Praha
Banska Bystrica	701	428.0	100	Bratislava
Usti nad Labem	701	428.0	2	Regional
Praha	701	428.0	30	CS*
Praha kraj	701	428.0	2	Regional
Kosice	701	428.0	5	Regional
Brno	953	314.7	100	Praha
Plzen	953	314.7	15	Praha
Bratislava	1097	273.5	150	Bratislava†
Kosice	1232	243.5	100	Bratislava
Orava	1232	243.5	2/5	Regional
Hradec Kral	1232	243.5	5	Praha+Regional
Praha Melnik	1286	233.3	100	CS‡
Rim. Sobota	1286	233.3	2/4	Regional
Jihlava	1484	202.2	2	Praha
Usti nad Labem	1484	202.2	2	CS+Regional
Rim. Sobota	1484	202.2	3.5	Regional
Praha	1520	197.3	30	CS (from 17.55)
C. Budejovice	1520	197.3	5	CS
Karlovy Vary	1520	197.3	15	CS
Liberec	1520	197.3	2	CS
Ostrava	1520	197.3	30	CS
Tatry	1594	188.2	2	Bratislava+Reg.
Zilina	1594	188.2	2	Bratislava

*) Evening only; †) Foreign Sce. (night only); ‡) Foreign Sce. (evening).

FM:

Location	MHz	kW	Location	MHz	kW
Ostrava	66.32	4	Kral. Hola	69.20	10
Kosice	66.38	4	Hradec Kral	69.35	4
Praha	66.83	2	Tatry	69.40	4
Bratislava	66.98	2	Zilinia	69.50	1
Hradec Kral	67.22	2	Plzen	69.56	8
Poprad	67.28	1	B. Bystrica	69.69	8
Plzen	67.34	8	Brno	69.86	8
Bratislava	67.76	3	C. Budejovice	70.07	8
Kral. Hola	68.06	10	Usti nad Labem	70.50	4
Bratislava	68.84	8	Zilina	71.60	1
Kosice	68.87	8	C. Budejovice	71.63	8
Praha	68.96	4	Brno	71.87	8
Ostrava	69.07	4	Usti nad Labem	72.20	4
Ostrava	69.08	4	B. Bystrica	72.50	8

*) up to 15.00; †) from 15.00.

HOME SCE:

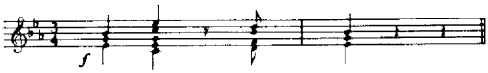
PRAHA: Czech: 03.30 (Sun 05.00)-23.00 — **N, Wrp:** 03.30, 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 17.30, 22.00; Sun 05.00, 06.00, 08.00, 11.05, 16.00, 17.30, 20.30, 22.00 — **L.L:** Polish: On 1520kHz: Tues 14.50-15.00, Sat 11.30-12.00.

CS: Czech/Slovak: 03.30 (Sun 05.00)-01.00 — **N, Wrp:** W 03.30, 04.30, 05.30, 06.30, 09.00, 11.00, 13.00, 17.00, *19.30, 21.30, 22.55, 00.55; Sun 5.00, 06.30, 09.00, 12.00,* 17.30, 19.30, 21.30, 22.55, 00.55.

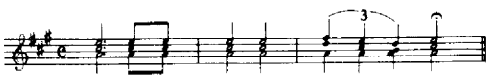
III. PRGR: Czech/Slovak: W 09.00-11.00, 14.00-23.00; Sat/Sun 07.00-23.00 — **L.L:** English, French, German, Russian: W 09.20-10.30, 16.20-17.00; Sat 07.00-08.00.

BRATISLAVA: N, Wrp: W 03.30, 04.00, 04.30, 05.00, 05.30, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 17.30, 20.30, 22.55; Sun 05.00, 06.50, 11.30, 17.30, 20.30, 22.55 —

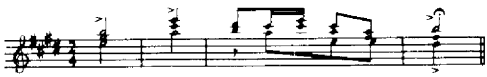
Hungarian: 06.00-07.00 (W), 09.00-10.00 (Thurs), 11.00-11.40, 14.00-15.00 (Mon-Fri), 11.00-15.00 (Sat), 06.00-14.00 (Sun) — **Ukrainian:** 11.00-11.10 (W), 09.00-10.00, 14.30-15.00 (Mon-Fri), 15.30-16.00 (Tues), 15.00-16.00 (Sat), 06.00-06.50, 13.00-15.30.
For the period March-April is all the same but **Hungarian** will be broadcast as follows: Mon-Fri 05.00-06.00, 11.00-11.40, 16.00-17.00; Sat 05.00-06.00, 11.00 17.00; Sun 06.00-14.00. Thurs also 09.00-10.00.
Phonotests for Radioamateurs: Sat 06.55 on all freq's of Praha and III. Prgr.
INT-SIG: Praha: "The two opening bars of Smetana's symphonic poem "Vysehrad".



CS: Fanfares from a March by V. Dobliás.



Bratislava: Fanfares from a March by B. Urbanec:



FOREIGN SERVICE

STATIONS (G.C: 15.09E/50.09N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1286	233.3	100	9560	31.38	100	15285	19.63	100
5930	50.59	100	9575	31.33	100	15310	19.60	100
6055	49.55	200	9600	31.25	100	15445	19.43	100
6140	48.86	100	9605	31.23	100	17840	16.82	100
6185	48.50	100	9630	31.15	200/100	21485	13.96	100
7345	40.85	100	11800	25.42	100	21700	13.83	100
9505	31.56	200	11960	25.08	100	21735	13.81	100
9540	31.45	100	11990	25.02	100			

TO EUROPE

Czech/ Slovak	kHz
08.00-08.30	6140
English	
07.00-08.00	6055,9505
12.00-12.30	9560,11960, 15285
15.30-16.30	6055
16.30-17.00	5930,7345
19.00-19.30	5930,7345
French	
11.00-12.00	6055,9505
German	
08.00-09.30	6055,9505
09.30-11.00*	6055,9505
Italian	
12.00-13.00	6055,9505
13.00-14.30†	6055,9505
Spanish	
12.30-13.30†	6185,11960, 15285
17.00-17.30	5930,7345
18.00-19.00	5930,7345

TO AFRICA

Arabic	kHz
16.30-17.30	5930,9605, 11990,17840
19.30-20.30	5930,7345, 9600,11990, 17840
Czech/ Slovak	
08.00-08.30	21700
15.00-15.30	9605,15285, 17840
English	
15.30-16.30	9605,15285, 17840
17.30-18.30	5930,7345, 9605,11990, 17840
French	
18.30-19.30	9600,11990, 17840
20.30-21.30	5930,7345, 9600,11990, 17840

TO SOUTH ASIA

Czech/ Slovak	kHz
15.00-15.30	11990,21735
English	
15.30-16.30	11990,21735

TO FAR EAST & AUSTRALIA

English	kHz
07.00-08.00	9575,11800, 15310,21485, 21700
Czech/Slovak	
08.00-08.30	15310,21485

TO NORTH AMERICA

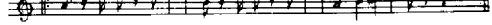
Czech/ Slovak	kHz
13.30-14.00 (Sun)	15445,17840, 21735
22.30-23.00	5930,7345, 11990
English	
14.00-15.00 (Sun)	15445,17840, 21735
01.00-02.00	5930,7345, 9540,9630, 11990
03.00-04.00	5930,7345, 9540,9630, 11990

TO LATIN AMERICA

Czech/ Slovak	kHz
22.30-23.00	9600,17840
Portuguese	**kHz**
21.30-22.30	5930,7345, 9600,11990, 17840
00.00-01.00	5930,7345, 9540,9630, 11990
Spanish	**kHz**
23.00-24.00	5930,7345, 9540,9630, 11990
02.00-03.00	5930,7345, 9540,9630, 11990

*) for Austria; †) Sat/Sun only.

MW SCE. for Europe (on 1286kHz):
English: 22.00-22.30; **French:** 20.30-21.00, 21.30-22.00; **German:** 18.00-18.30, 19.00-19.30, 20.00-20.30, 22.30-23.00; **Italian:** 18.30-19.00, 19.30-20.00, 21.00-21.30; **Spanish:** 23.00-23.30, 23.30-24.00 (Sun only).
Prgr's for radioamateurs and SWL's:
To Europe: Every Wed at 12.00, 16.30, 19.00, 22.00. **To No. America:** 2nd Fri at 01.00, 03.30, 07.00 (repeat for Far East and Australia). **Monitor Club:** 4th Fri at 01.00, 03.30 (07.00 repeat for Far East and Australia). **In German:** 1st Thurs 19.00, repeated following Thurs 08.00. For Austria: 3rd Sun 09.30, repeated following Tues 17.05.
ANN: E: "This is Prague". Arabic: "Huna Pragh". F: "Ici Prague, Tchecoslovaquie". I: "Qui Praga Cecoslovacchia". G: "Hier spricht Prag". Sp: "Aqui R. Praga, Checoslovaquia". P: "Aqui fala a R. Praga". Czech/Slovak: "Poslouchate Prahu, vysilani Cs. rozhlasu pro krajany" — **INT-SIG:** The opening bars of the song "Forward Left" by J. Seidl, played on trumpets.



V. by QSL-card and letter. Rec. acc. — **PUB:** Foreign Sce. sched. free on request — **FI:** By licence payments and adv. — **AD:** Mon, Wed, Thurs, Fri 07.55; Mon-Fri 14.55; Wed, Thurs 16.50; Sat 16.35 — **ALF:** 120,- Czech Crowns.

DENMARK

L.T: GMT+1h — **Pr.L:** Danish — **E.C:** a/c 50 (yes).

RADIO DENMARK (Gov.)
ADDR: Radiohouse, Rosenørnsallé 22, 1970 Copenhagen V. **Te:** 350647. **Cable:** Danradio. **Telex:** 2695.
L.P: Dir. Gen: Hans Sølvhøj. Deputy Dir. Gen: Erik Carlsen. Dir. Prgr (radio): J. F. Lawaetz. Dir. Adm: Ejnar Jensen. Head of Music: M. Andersen. Head of Drama (radio): J. Claudi. Head of Entertainment (radio): Kaj Bruun. Head of Press and Foreign Relations Dept: E. Trautmann. Dir. Tec. (radio+TV): Peter Hansen, Head of Tec. Dept. (radio): H. C. Jørgensen. Heads of Tec. Depts. (TV): Jens Harvig, J. Brummerstedt, Jens Jørgen Jensen. Head of News: N. Grunnet. Head, Actualities and Cultural Dept. (radio): J. Vedel-Petersen, Head, Children and Youth Prgr: Mogens Vemmer. Head Educ. Broadcasts (radio+TV): V. Christensen.

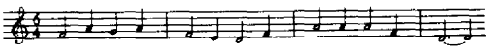
STATIONS: Long and Medium Waves:

	kHz	m	kW			kHz	m	kW	
Kalundborg	245	1224	150	I	København	1484	202.2	2	I
Kalundborg	1061	282.8	60	II	Ålborg	1484	202.2	0.25	I
København	1430	209.8	10	II	Tønder	1484	202.2	0.25	I
Skive	1430	209.8	70	II	Esbjerg	1594	188.2	2	I

FM:	MHz	kW	P.	FM:	MHz	kW	P.
Århus	88.1	30	I	Sydsjælland	94.8	60	I
Fyn	89.0	60	I	Sønderjylland	95.1	50	I
Ålborg	89.7	30	III	Århus	95.9	30	II
Bornholm	90.0	30	III	København	96.5	60	II
Vestjylland	90.2	60	I	Fyn	96.8	60	II
København	96.5	60	II	Sønderjylland	97.2	50	III
Århus	91.7	30	III	Sydsjælland	97.5	60	II
Fyn	92.6	60	III	Ålborg	98.1	30	II
Vestjylland	92.9	60	III	Vestjylland	98.5	60	II
Ålborg	93.3	30	I	Bornholm	99.3	30	II
København	93.85	60	III	Sydsjælland	99.6	60	III
Bornholm	94.5	30	I	Sønderjylland	99.9	50	II

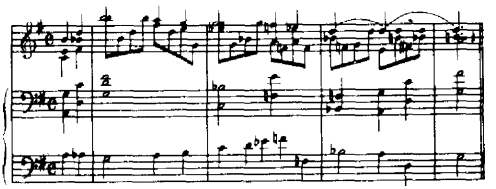
+6 low power freq. changers in Hobro (3) and Vejle (3).
1st Prgr: W 05.00-23.05, Sun 07.00-23.05.
N: 05.00 (W), 06.00 (W), 07.00, 08.00, 11.30, 14.30 (W), 17.30, 21.00, 22.00, 23.00 — **Wrp:** 07.45, 10.50, 17.05.
L.L: English: Tues, Fri 09.40-10.00 — **Rlg:** Sun 09.00, W 07.30.
2nd Prgr: W 16.15 — Abt. 22.00 (Sat 23.05); Sun 08.00-22.10 (Mon 18.00-18.45 not on 1061kHz (Kalundborg) and 1430kHz (Copenhagen). **N:** 17.30 and between 21.00 and 22.30 — **Rlg:** Sun 13.00 — **L.L: English:** Mon, Thurs 17.05-17.25. **French:** Mon, Thurs 16.25-16.45.

Spanish: Mon, Thurs 16.45-17.05. **Russian:** Tues, Fri 16.25-16.40.
3rd Prgr. (Musical Prgr): W 11.00-19.00; Sun 08.00-23.05. Also 21.00-23.00 on Prgr. I (this prgr. is also relayed by the tr's of the 2nd prgr: 11.00-16.00). **N:** Hourly.
Reg. Prgr's: Mon 18.00-18.45 on 93.3MHz/1484kHz (Alborg), 88.1MHz (Arhus), 90.2MHz (Vestjylland), 95.1 MHz (Sønderjylland), 1484kHz (Tønder), 1594kHz (Esbjerg), 89.0MHz (Fyn), 94.8MHz (Sydsjælland), 90.8 MHz/1484kHz (København), 94.5MHz (Bornholm).
During the times for Regional Prgr's Kalundborg I on 245kHz is used for special prgr. prepared by the Short-wave Department.
ANN: "Danmarks Radio, Program I" (Program II).
INT-SIG: Prgr. I: From an old Danish folksong; D at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.



Prgr. II:

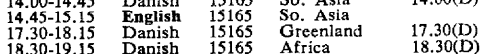
INT-SIG: 3rd Prgr:



FOREIGN SERVICE
STATIONS (G.C: 12.21E/55.41N): 1×50kW tr.
OZF5 9520kHz 31.51m — OZF7 15165kHz 19.78m.

Times	Language	kHz	Area	News
01.00-01.45	Danish	9520	No. Am.	01.00(D)
01.45-02.15	**English**	9520	No. Am.	
07.30-08.15	Danish	15165	F. East	07.30(D)
08.15-08.45	**English**	15165	F. East	
09.45-09.50	Danish	15165	Greenland	
10.15-11.00*	**English**	9520	Europe	
11.30-11.55	Danish	15165	Greenland	
12.00-12.45	Danish	15165	No. Am.	12.00(D)
12.45-13.15	**English**	15165	No. Am.	
13.30-13.45	Danish	15165	Greenland	13.30(D)
14.00-14.45	Danish	15165	So. Asia	14.00(D)
14.45-15.15	**English**	15165	So. Asia	
17.30-18.15	Danish	15165	Greenland	17.30(D)
18.30-19.15	Danish	15165	Africa	18.30(D)
19.15-19.45	**English**	15165	Africa	
21.00-21.45	Danish	15165	So. Am.	21.00(D)
21.45-22.15	Spanish	15165	So. Am.	21.45(Sp)

*Sat and Sun only.
Emphasis is laid on cultural and social material, on aspects of the many facets of life in Denmark, Danish relations with the rest of the world, and also included in the prgr's are classical and light music, a DX prgr. "DX Window", topical events and mailbag get-togethers.
DX-Window: Sun 10.45-11.05, Mon 08.15-08.35, 12.45-13.05, 14.45-15.05, 19.15-19.35; Tues 01.45-02.05.
INT-SIG and ANN: Danish tr's preceded by repetition of first bars of Danish National song by Carl Nielsen:

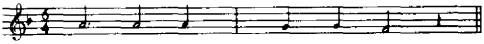


followed by the words: "Danmarks Radio". The English tr's begin with: "This is Denmark".
Message to Listeners: Radio Denmark is anxious to receive reports on prgr. and on reception conditions from all parts of the world. It makes every endeavour to get into touch with countrymen and listeners in countries abroad with a view to provide the best possible sw-sce — **V.** by letter or QSL-card. Recordings accepted — **PUB:** "Voice of Denmark" (quarterly) mailed upon request — **ALF:** Kr. 67.50 (radio).

FAROE ISLANDS

L.T: GMT — **Pr.L:** Faroese.

UTVARP FOROYA
ADDR: P.O. Box 128, Tórshavn. **Te:** 1380. **Telex:** 1126.
L.P: Mgr: N. J. Arge.
STATION: 584kHz 513m 5kW.
HOME SCE: Mon-Fri 07.15-08.00, 12.00-13.00 (Wed 14.00), 18.30-20.00; Sat 07.15-08.00, 12.00-13.00, 18.30-23.00; Sun 14.00-18.00. Prgr's consist of Wrp, N. from the Faroes, foreign N, lectures, music, features, radio-plays, interviews, morning prayer — **ANN:** "Utvarp Föroya" — **INT-SIG:** Xylofon — **V.** by letter.



FINLAND

L.T: GMT+2h — **Pr.L:** Finnish, Swedish — **EC:** a/c 50 (yes).

OY YLEISRADIO AB (Gov.)
ADDR: Kesäkatu 2, Helsinki 26. **Te:** 44141. **Cable:** Yleisradio. **Telex:** 12.735.
L.P: Dir. Gen: E. S. Repo (until Dec. 31st, 1969), E. Raatikainen (from Jan. 1st, 1970). Dep. Dir. Gen, Dir. Adm: L. H. Vennola. Asst. Dir. Adm: M. Anderzén. Asst. Dir. Staff Adm: R. Koski. Prgr. Dir: P. Silvola (from Jan. 1st, 1970). Ag. Dir. Eng: P. Velander. Dir. Finance: A. Paananen. Asst. Dir. Finance: M. Tamminen. Dir. of Radio: E. S. Repo (from Jan. 1st, 1970). Dir. of Swedish Radio and TV: Chr. Schildt. Head of Intern. Rel: V. Zilliacus (from Jan. 1st, 1970). Head of Adm. Section (Intern. Rel.): P. Berg.
STATIONS: Long and Medium Waves:

	kHz	m	kW	P.
Lahti	254	1181	200	A
Oulu	433	693	10	A
Joensuu	520	577	1	A
Helsinki I	557	539	100	A
Kuopio	755	397	20	A
Ylivieska	836	359	10	A
Turku I	962	312	100	A
Vaasa	1241	242	25	C

	kHz	m	kW	P.
Helsinki II	1412	212	2	C
Turku II	1412	212	4	C
Tampere	1421	211	1	A
Pietarsaari	1484	202	1	C
Pori	1484	202	1	A

P.=Prgr. group; A=Prgr. 1; B=Prgr. 2; C=Swedish language prgr.

FM:	MHz	kW	P.
Eurajoki II	87.7	15	B
Iisalmi I	87.7	0.7	A
Näätämö	87.8	0.01W	A
Joutseno II	88.0	25	B
Kilpisjärvi II	88.0	0.01W	B
Ähtäri II	88.0	1	B
Nuorgam I	88.6	0.02	A
Pihtipudas II	88.6	10	B
Tervola II	88.6	10	B
Mikkeli I	88.9	25	A
Pyhävuori III	88.9	15	C
Forssa II	89.2	0.1	B
Loviisa	89.2	0.1	C
Taivalkoski I	89.2	45	A
Kilpisjärvi I	89.4	0.01W	A
Karigasniemi II	89.5	0.7	B
Turku III	89.8	50	C
Jyväskylä II	89.9	25	B
Koli I	90.1	20	A
Lapua I	90.1	60	A
Oulu I	90.4	50	A
Joutseno I	90.7	25	A
Ruka I	90.7	0.7	A
Tampere I	90.7	45	A
Utsjoki I	90.7	1	A
Pyhätunturi II	91.0	50	B
Pyhävuori II	91.0	15	B
Mariehamn	91.3	5	C
Kuopio I	91.6	25	A
Taivalkoski II	91.9	45	B
Helsinki II	91.9	40	B
Eurajoki I	92.0	15	A

FM:	MHz	kW	P.
Yllästunturi II	92.2	60	B
Jyväskylä I	92.5	25	A
Tervola I	92.6	10	A
Forssa I	92.8	0.1	A
Iisalmi II	92.8	0.7	B
Kaunispää II	92.8	15	B
Ruka II	92.8	0.7	B
Sippola I	92.8	5	A
Lapua II	93.1	60	B
Tammisaari III	93.1	3	C
Karigasniemi I	93.4	0.7	A
Koli II	93.4	20	B
Tampere II	93.7	45	B
Helsinki I	94.0	40	A
Pietarsaari	94.0	10	C
Rovaniemi II	94.0	10	B
Kajaani	94.3	40	A
Turku I	94.3	50	A
Mikkeli II	94.6	25	B
Pyhävuori I	94.6	15	A
Ähtäri I	94.9	1	A
Nuorgam II	95.2	0.02	B
Vaasa	95.2	6	C
Yllästunturi I	95.3	60	A
Lahti I	95.5	50	A
Kerimäki I	95.8	15	A
Ylivieska II	96.1	15	B
Kuopio II	96.2	25	B
Sippola II	96.4	5	B
Rovaniemi I	96.7	10	A
Pihtipudas I	97.0	10	A
Tammisaari I	97.0	3	A

RADIO DENMARK

the voice of denmark on 9520 and 15165 kHz

With daily broadcasts in Danish, Spanish and English ● Radio Denmark shortwave serves you with DX programmes ● Mailbag ● Music ● Features on Denmark ● Danish Life ● Danish views on the news ● Broadcasting from Copenhagen with a power of 50 kWs.

DR
DANMARKS RADIO

FM:	MHz	kW	P.
Tampere III	97.2	0.3	C
Oulu II	97.3	50	B
Kokkola II	97.6	3	B
Pyhätunturi I	97.6	50	A
Lahti II	97.9	50	B
Turku II	98.2	50	B
Ylivieska I	98.4	15	A
Helsinki III	98.8	40	C
Kaunispää I	98.8	15	A
Kajaani II	98.9	40	B
Kerimäki II	99.1	15	B
Eurajoki III	99.4	3	C
Utsjoki II	99.4	1	B
Kokkola I	99.7	3	A
Tammisaari II	99.7	3	B

HOME SCE: Group A: W 04.00-22.00; Sun 05.30-22.00. **N:** W 04.00, 05.00, 06.00, 08.00, 09.30, 10.30, 12.00, 13.00, 14.00, 15.30, 17.00, 20.00, 22.00; Sun 06.30, 10.30, 15.30, 17.00, 20.00, 22.00 — **Wrp:** 04.00, 05.00, 06.00 (Sun 06.30), 10.40, 17.10, 20.20 — **Wrp. for seas:** W 06.15, 10.40, 17.10, 20.20. Sun 10.40, 17.10, 20.20. **News in Group B only:** 19.00, 21.00.
Group C (Swedish) **N:** W 04.00, 05.00, 06.00, 08.00, 09.30, 10.30, 12.00, 13.00, 14.00, 15.30, 17.00, 20.00, 22.00. Sun 06.30, 10.30, 17.00, 20.00, 22.00 — **Wrp:** 04.00, 05.00, 06.00 (Sun 06.30), 10.30, 17.00, 20.00 — Wrp. for seas as in group A.
Main Prgr: Group A: Both light and serious prgr.
Second Prgr: Group B: Light musical prgr. to 16.00 and after 21.00. Serious prgr: 16.00-21.00.
Swedish Prgr. (Group C): 04.00-16.00 prgr. in Swedish and music from group B. 16.00-20.30 prgr. in Swedish. 20.30-22.00 music from group B.

FOREIGN SERVICE

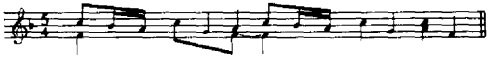
STATIONS: Pori (G.C: 21.52E/61.28N):

	kHz	m	kW		kHz	m	kW
OIX7	6120	49.02	15	OIX8	11805	25.41	10
OIX2	9550	31.41	15	OIX4	15185	19.76	100

I=for Europe; II=for North America; III=for South America. HS=relay Home Sce; F=Finnish; S=Swedish; E=English.

Times	kHz	Area	Prgr.
04.00-22.00(W)	6120	I	HS in F & S
05.30-22.00(Sun)	6120	I	HS in F & S
06.00-06.30(W)	9550	I	N,Wrp. in
	11805	I	Finnish
06.30-06.50(Sun)	9550	I	N, in Finnish
	11805	I	& Swedish
10.00-11.15(D)	9550	I	HS in Finnish, Swedish
	11805	I	10.30 N,Wrp. in Finnish
	15185	I	11.00 N. in Swedish
12.00-13.15(D)	9550	I	HS in Finnish N: 12.00,
	11805	I	13.00, Mon prgr. for
	15185	II	seamen 12.00-13.00 in Finnish & Swedish
15.00-15.55(D)	15185	II	HS in Finnish, 15.30 N. & current events
15.00-18.30(D)	9550	I	HS in Finnish & Swedish; N,Wrp. in Finnish 15.30, 17.00; in
16.00-18.30(D)	11805	I	
	15185	I	Swedish 17.40. **Prgr. in English** daily 18.00-18.30; Sun prgr. for seamen 17.00-18.00 in Finnish & Swedish
20.00-21.00(D)	9550	I	HS in Finnish; 20.00-
	11805	I	20.30 N,Wrp. & current
	15185	III	events
23.00-24.00(D)	15185	II	Prgr. in **English** 23.00-23.30, HS in Finnish 23.30-24.00

English: W 18.00-18.30; feature-prgr's and current events 18.00-18.15; DX-programmes 18.15-18.30; Sun 18.00-18.30 Letterbox; repeated 23.00-23.30 for North America.
ANN: Before and after each tr. there are st. ann. in Finnish, Swedish and English. Finnish: "Suomen Yleisradio". Swedish: "Finlands Rundradio". English: "This is the Finnish Broadcasting Company". **INT-SIG:** Based on an old Finnish Folk melody — **V.** by QSL-card.



PUB: Prgr-schedules to Listeners: schedules of the short wave tr's containing the same information as given in the World Radio Television Handbook, can be obtained by writing to "English Section" of the Finnish Broadcasting Co.
FI: By license payments — **ALF:** Fmk 20,-

NOREA RADIO FINLAND
FI: By gifts from listeners and friends — **ADDR:** Box 10561, Helsinki 10 — **L.P:** Dir. Adm: E. Honkanen. Dir. Prgr: E. Hirvonen.
D.PRGR. in Finnish: Tues, Thurs, Fri 16.30-16.45 on 9585kHz (100kW) over Radio Monte Carlo — **V.** by QSL-card.

FRANCE

L.T: GMT+1h — **Pr.L:** French — **EC:** a/c 50 (yes).

OFFICE DE RADIODIFFUSION-TELEVISION FRANCAISE (Publicly owned)
Central Service:
ADDR: Maison de l'O.R.T.F, 116 Avenue de Président Kennedy, Paris 16ème. **Cable:** ORTFDIR. **Te:** 224.22.22. **Telex:** 20002.
L.P: Adm. Council: Pres: P. de Leusse. Vice Pres: Ph. Cosse-Maniere. **Direction General:** Dir. Gen: J. J. de Bresson. Dir. Gen. Adjoint and Dir. des Affaires Extérieures et de la Coopération: R. Poussard. Dir. charge de Mission aupres du Dir. Gen: G. Riou. Dir. du Cabinet du Dir. Gen: X. Larere. Secr. Gen. pour l'Adm: A. Dangeard.
Prgr. committee: Pres: A. Salacrou (radio), P. A. Touchard (télévision). Gen. Secr: G. E. Clancier. Chef du Service de la Recherche: P. Schaeffer. Délégue aux Stations Regionales: B. Gouley. Délégue du Dir. Gen. pour Rel. Publiques: C. Lemoine. General Inspectors: P. Bodin, M. Freneau, A. M. Gerard, J. Laudrac, R. Wadin. Dir. de l'Equipment et de l'Exploitation: C. Mercier. Dir. Adjoint chargé de l'Equipment: G. Chedeville. Dir. de la Radiodiff: R. Dhordain. Dir. de la Télévision: A. Francais. Counseiller Technique: W. Studer. International Affairs: M. Robida. Radio: G. Pointeau. Télévision: L. Renault. Cooperation: A. Clave.
Regional Services:
BORDEAUX: 32/34, rue Ulysse-Gayon — DIJON: 2, rue Hoche — LILLE: 36, bld. de la Liberté — LIMOGES: 6, bld. Victor Hugo — LYON: La Part Dieu, 12 rue des Cuirassiers (3ème) — MARSEILLE: 2, allée Ray-Grassi — NANCY: 6, av. Hippolyte Maringer — RENNES: 9, av. Janvier — STRASBOURG: Place de Bordeaux — TOULOUSE: 78, allées Jean-Jaurée.

HOME SERVICES

FRANCE INTER:

	kHz	m	kW		kHz	m	kW
Allouis*	164	182.9	1100/500	Strasbourg	1493	200.9	1
				Nimes	1594	188.2	1
Grenoble	1484	202.2	1	Toulon	1594	188.2	0.05
Perpignan	1484	202.2	1	Allouis	6175	48.58	100
Marseille	1493	200.9	1				

*) 05.00-23.00 1100kW.
D.PRGR: On 164kHz: 24 h exc. Fri 03.03-04.00. Other tr's 04.20-23.00. **N:** On the h and 06.30. **"Inter Service Route"** (for motorists): 00.30, 03.45, 04.50, 06.55, 10.57, 19.20.

FRANCE INTER VARIETEES:

	kHz	m	kW		kHz	m	kW
Paris III	584	514	4	Montpellier	1403	214	10
Lyon	602	498	300	Rouen	1403	214	20
Marseille	674	445	150	Pau	1403	214	20
Rennes	710	423	150	Bayonne	1493	201	4
Limoges	791	379	100	Brest	1493	201	0.05
Nancy	836	359	150	Nantes	1493	201	0.05
Toulouse	944	318	100	Caen	1484	202	0.05
Paris II	1070	280	100	Dijon	1484	202	1
Strasbourg	1160	259	150	Poitiers	1484	202	1
Bordeaux	1205	249	100	St. Quentin	1484	202	0.05
Lille	1376	218	200	Ajaccio	1493	201	10
Bastia	1403	214	8	Tours	1483	201	0.05
Brest	1403	214	20	Nice	1554	193	300
Clermont Fd.	1403	214	20	Lorient	1594	188	0.05
				Angers	1594	188	0.05

FM: *) 0.05kW; †) 2kW; ‡) 0.25kW; other 12kW.

	MHz		MHz
Toulouse†	87.9	Marseille	91.27
St. Quentin*	87.93	Perpignant	92.1
Carcassonne	88.3	Cherbourg*	91.8
Vannes†	88.6	Ajaccio†	92.4
Le Havre‡	88.9	Le Mans	92.6
Bayonne†	89.2	Brest	93.0
Montpellier†	89.4	Limoges	93.0
Bordeaux†	89.7	Angers*	93.2
Besançon†	90.0	Rennes	93.55
Clermont-Fd.†	90.4	Gex†	94.4
Nantes	90.6	Lille	94.7
Paris	90.35	Bourges	94.9

	MHz		MHz
Toulon†	94.9	Nancy‡	96.9
Cherbourg‡	94.15	Strasbourg	97.3
Troyes	95.3	Valenciennes*	97.2
Aurillac†	94.5	Reims*	97.43
Boulogne‡	95.5	Longwy†	98.1
Mulhouse	95.7	Antisanti‡	98.2
Mézières†	95.8	Metz*	98.5
Bastia†	95.9	Epinal†	98.6
Dijon†	95.9	Tours*	98.7
Amiens*	95.95	Chambery†	99.0
Sens†	96.25	Grenoble†	99.4
St. Raphael†	96.3	Niort	99.4
Rouen	96.5	Caen	99.6
Gap*	96.6	Metz	99.8
Nimes*	96.8	Lyon	99.8
Reims	96.8	Digne*	99.9

D.PRGR: All mw tr's are relaying France Inter from 04.00 to 23.00 with the following exceptions: W 19.20-23.00, Sun 14.00-18.30, 19.20-23.00 (France Intér Variétes). Most mw tr's radiate Reg. Prgr's as follows: 05.30-05.45, 06.30-06.45, 11.30-11.45, 13.03-13.45. Nice (1554kHz) relays France Inter (164kHz) at 23.00-04.30, 18.15 (Sun 18.30)-18.55, 19.35-21.00 (Mon only), 21.00-22.00 (Fri only) (Fri 23.00-24.00). (All mw-tr's of 10kW and more exc. Paris have a break Tues 08.00-10.30. All FM tr's exc. Paris have a break Thurs 13.00-16.00).

FRANCE CULTURE

	kHz	m	kW		kHz	m	kW
Bayonne	539	557	0.05	Strasbourg	1277	235	100
Paris	836	348	300	Bordeaux	1349	222	20
Brest	1241	242	20	Grenoble	1349	222	20
Lille	1241	242	20	Limoges	1349	222	20
Lyon	1241	242	20	Nantes	1349	222	10
Marseille	1241	242	20	Toulouse	1349	222	20
Nancy	1241	242	20	Saint-Brieuc	1493	201	0.05
Nice	1241	242	20	Besançon	1493	201	1
Rennes	1241	242	24				

FM: *) 0.05kW; †) 2kW; ‡) 0.25kW; others 12kW.

	MHz		MHz
Strasbourg	87.7	Metz	94.5
Grenoble†	88.2	Toulouse†	95.7
Longwy†	88.3	Vannes†	96.0
Bourges	88.5	Bayonne†	96.1
Mulhouse	88.6	Niort	96.4
Nancy‡	88.7	Carcassonne	96.5
St. Raphaël†	88.7	Gex†	96.7
Lyon	88.8	Ajaccio†	97.6
Le Mans	89.0	Besançon†	97.7
Bastia†	89.2	Brest	97.7
Cherbourg‡	89.2	Montpellier†	97.8
Limoges	89.5	Troyes	97.9
Toulon‡	89.6	Aurillac†	98.0
Mézières††	90.1	Lille	98.0
Antisanti‡	91.0	Bordeaux†	98.1
Caen	91.53	Rennes	98.3
Epinal†	92.4	Sens†	98.5
Chambery†	93.0	Clermont-Fd.†	98.6
Le Havre‡	93.3	Reims	98.85
Paris	93.35	Marseille	99.0
Dijon	93.7	Perpignan†	99.8
Rouen	94.0	Boulogne‡	99.9
Nantes	94.2		

D.PRGR: 05.30-23.00. **N:** 06.30, 11.30, 19.30. **Reg. Prgr's** from Strasbourg (mw). Break in tr for mw's (exc. Paris) Fri 15.00-17.00 and FM tr's Wed 15.00-17.20.

FRANCE MUSIQUE

FM: *) 0.05kW; †) 2kW; ‡) 0.25kW; others 12kW.

	MHz		MHz
Ajaccio†	88.0	Aurillac†	91.9
°Lille	88.7	°Rouen	92.0
Epinal†	89.4	Cherbourg‡	92.35
°Reims	89.2	°Lyon	92.4
°Bologne‡	89.4	Bayonne†	92.7
°Brest	89.4	°Besançon†	92.9
°Gex†	89.6	Montpellier†	92.9
°Metz	89.7	°Bordeaux†	93.5
°Rennes	89.9	Mézières†	93.5
°Chambery†	89.9	°Sens†	93.8
Carcassonne	90.9	Bastia†	93.9
°Longwy†	91.0	°Marseille	94.2
Niort	91.1	Antisanti‡	94.8
Troyes	91.4	°Strasbourg	95.0
°Toulouse†	91.5	°Clermont-Fd†	95.5
°Mulhouse	91.6	°Caen	95.6
Bourges	91.8	Le Mans	97.0
Grenoble†	91.8	°Toulon†	97.1
°Nancy‡	91.8	°Perpignan†	97.2
°Vannes†	91.8	°Limoges	97.5
°Paris‡	97.6	°Dijon†	99.2
°Le Havre‡	98.5	°St. Raphael†	99.6
°Nantes	98.9		

°) Stereophonic broadcasts.

D.PRGR: 06.00-23.00. **N:** 06.30, 11.30, 18.15 — All tr's (exc. Paris) have a break in tr's Thurs and Fri 07.15-10.30.

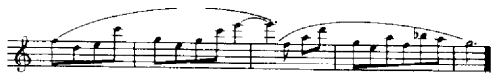
FOREIGN LANGUAGE BROADCASTS ON MEDIUM WAVES:

German: 18.15 (Sun 18.30)-19.00 on 1277kHz (Strasbourg) — **Italian:** Mon-Fri 05.30-05.40 on France Culture Netw — **Polish:** W 17.30-18.00 on 1376kHz (Lille) — **Portuguese:** Mon-Fri 05.40-05.50 on France Culture Netw — **Spanish:** Mon-Fri 05.50-06.00 on France Culture Netw, 22.00-23.00 on 944kHz (Toulouse).

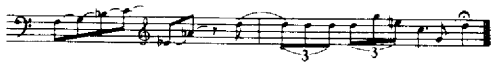
SPECIAL BROADCASTS:
Paris IV 962kHz 312m 10kW+FM 87.8MHz 12kW: Sat 13.00-17.00, Sun 08.00-15.00 (University broadcasts).

ANN: "France Inter" — "Inter Variétes" — "France Culture" — "France Musique".

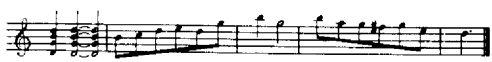
INT-SIG: France Inter:



France Culture:



France Musique:



FOREIGN SERVICE

STATIONS: Allouis and Issoudun: 20×100kW tr's (G.C: 02.00E/47.00N and 02.13E/47.10N).

kHz	m	kHz	m	kHz	m	kHz	m
5955	50.39	9585	31.30	15120	19.84	17720	16.93
6145	48.82	9620	31.19	15135	19.82	17730	16.92
6175	48.58	9700	30.93	15155	19.80	17765	16.89
7155	41.92	11745	25.54	15160	19.79	17850	16.81
7160	41.90	11845	25.33	15185	19.76	21580	13.90
7255	41.35	11920	25.17	15245	19.68	21620	13.87
7280	41.21	11930	25.15	15295	19.62	21645	13.86
9520	31.51	11965	25.07	15345	19.55	21675	13.84
9560	31.38						

I=Polynesia/New Caledonia; II=Africa; III=Antarctica; IV=Central America/Antilles; V=Far East; VI=East Africa/Reunion/Comoro/Afars and Issas; VII=Middle East; VIII=North America/St. Pierre and Miquelon; IX=South America/Guyana; X=Europe.

Arabic	Area	kHz
17.00-18.45	VII	11845,15160,17730
19.15-22.00	II	7280,9585
Bulgarian		
16.30-17.00	X	5955,6145,7160,9520,9560,11745, 15345
Czech		
19.45-20.10	X	5955,7160,9520,11845
English		
05.15-05.30	II	7155,7255,9700,11920,11930,15120
	VI	17730
11.00-11.15	II	15295,17720,21580
19.15-19.30	II	15185,15295,21580
French		
05.00-05.15	II	7155,7255,9700,11920,11930,15120
	VI	17730
06.00-07.30	VI	21620
	I/IX	9585,11845
	I/VIII	6175,9620
07.00-07.15	II	15120,15135,15295,17720,17730, 17850,21580
10.30-12.45	IV	15245,17765,21675
	VIII	21645
	VI	21620
11.30-11.45	II	15295,17720,21580
13.00-16.45	V	15155,15345,17850,21675
15.00-15.15	VII	7160,11845,15160,17730
19.00-19.15	II	15185,15295,21580
19.00-20.00	VI	21620
	IV	17765,21675
	VIII	15120

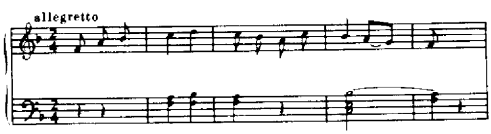
Greek	**Area**	**kHz**
12.15-12.45	X	7160,11845,15160,17730
Hungarian		
18.10-18.40	X	5955,6145,7160,9520,9560,11745, 15345
Kabyle		
19.00-19.15	II	7280,9585
Polish		
20.25-21.05	X	5955,7160,9520,11845
Portuguese		
11.15-11.30	II	15295,17720,21580
18.45-19.00	II	15185,15295,21580
19.45-20.15	X	9560,15245,17850
00.00-00.30	IX	11920,11965,15120,15135,15245, 17730
Rumanian		
17.00-17.30	X	5955,6145,7160,9520,9560,11745, 15345
Russian		
10.00-10.30	X	7160,9520,15155,15345,17850
18.40-19.45	X	5955,6145,7160,9520,9560,11745
Serbo Croat		
17.40-18.10	X	5955,6145,7160,9520,9560,11745, 15345
Slovak		
20.10-20.25	X	5955,7160,9520,11845
Slovene		
17.30-17.40	X	5955,6145,7160,9520,9560,11745, 15345
Spanish		
00.30-01.00	IV/IX	11920,11965,15120
02.30-03.00	IV/IX	15135,15245,17730
Yiddish		
16.15-16.30(W)	X	5955,7160,9520,15345

Relay Home Programmes

(France Inter or Inter Varietes)

Time	**Area**	**kHz**	**Time**	**Area**	**kHz**
06.00-21.10	VI	21620	12.00-16.00	II	15295
06.00-07.00	II+VI	15135, 17730, 17850	13.00-18.30	II	15120
			13.00-19.00	IV	17765
			16.00-19.00	IV	21675
06.00-18.30	II	17720, 21580	18.45-19.30	X	15345
			18.45-22.00	X+VII	15160
06.00-08.45	II	15120, 15295	19.00-19.30	VI	17850
			20.00-24.00	VII	15120
07.30-22.00	X	6175	20.15-24.00	IV+IX	15245
09.00-10.00	X	7160, 9520, i7850	21.05-22.00	X	5955, 7160, 9520, 11845
09.00-12.45	X	15155, 15345	01.00-02.30	VIII	11920, 11965, 15120, 15135, 15245, 17730
10.45-17.00	X+VII	11845, 15160, 17730			
10.45-16.00	X+VII	7160			

ANN: "Ici Paris, Office de Radiodiffusion-Télévision Française".
INT-SIG: Popular song: "Nous n'irons plus au bois".



V. by QSL-card. **ALF:** Fres 30,-.

GERMANY

GERMAN FEDERAL REPUBLIC

L.T: GMT+1h — **Pr.L:** German — **EC:** a/c 50 (yes).
Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland (ARD).
Broadcasting (Radio and Television): Chmn: Intendant Gerhard Schröder, NDR, 2 Hamburg 13, Rothenbaumchaussee 132-134. **Permanent Office:** Assessor Chr. Strupp, 6 Frankfurt/Main, Bertramshof — **Members:** Bayerischer, Hessischer, Norddeutscher, Saarländischer, Süddeutscher und Westdeutscher Rundfunk, Radio Bremen, Sender Freies Berlin, Südwestfunk, Deutschlandfunk, Deutsche Welle, and as guest partaker at meetings: RIAS Berlin. **ALF:** DM 84.00 (Radio 24.00+TV 60.00).

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
ADDR: 8 München 2, Rundfunkplatz 1. **Cable:** Bayernfunk. **Te:** 59001 — **L.P:** Intendant: Chr. Wallenreiter. Prgr. Dir: W. von Cube. Dir. Adm: H. Spies. Dir. Tec: Dr. F. Daser.

HOME SERVICE

FIRST PRGR. (on all frequencies): W 04.30-23.10; Sat 04.30-24.00; Sun 05.00-24.00.

Medium Waves:

Stations	**kHz**	**kW**	**Stations**	**kHz**	**kW**
Hof	520	0.2	Nürnberg	800	*
Passau	520	0.2	München	1602	†
Würzburg	520	0.2			

*) Day 50/100kW; Night 50kW; †) Day 185/370kW, Night 185kW.

Short Wave (G.C: 11.45E/48.15N): DMR24 6085kHz 49.30m 16kW: W 04.30-23.10; Sat 04.30-24.00; Sun 05.00-24.00.

FM:	**ch**	**MHz**	**kW**
Berchtesgaden I	3	87.8	0.3
Lindau I	4	88.1	0.4
Herzogstand I	4	88.1	0.1
Dillberg I	6	88.9	24
Landshut I	11	90.2	0.1
Grünten/ Allgäu I	12	90.7	100
Ochsenkopf/ Fichtelg. I	12	90.7	100
Reit i. Winkl I	13	91.0	0.1
München I	14	91.3	6
Hühnerberg I	16	91.9	6
Brotjacklriegel I	17	92.1	100

FM:	**ch**	**MHz**	**kW**
Bad Reichenh. I	19	92.8	0.3
Wendelstein I	22	93.7	100
Coburg I	22	93.5	2.4
Garm. Partenk I	22	93.5	0.5
Bamberg I	26	94.8	6
Aschaffenburg I	29	95.6	17
Hoher Bogen I	33	96.8	20
Traunstein Hb.	37	98.0	2
Kreuzb/Rhön I	38	98.3	100
Büttelberg I	41	99.3	10

N,Wrp: 05.00, 06.00, 07.00, 11.00, 12.00, 16.00, 18.00, 20.00, 22.00, 23.00. Sun 06.00, 07.00, 12.00, 16.00, 18.00, 20.00, 22.00, 23.00 — **"Cronik des Tages":** W 17.00 — **Reguest Prgr:** Wed 18.25.
Night Prgr: W 23.10 (Sat/Sun 00.00) — 04.20 on all mw st's and FM I.
N: 00.00, 01.00, 02.00, 03.00, 04.00 — **N. in English. French, German:** 08.00.

SECOND PRGR: Mon-Fri 04.30-09.20, 09.30-23.10; Sat 04.30-24.00; Sun 05.00-24.00 — **Relay First Prgr:** 04.30-05.05, Sat 23.00-24.00; Sun 05.00-06.05, 23.00-24.00.

FM:	**ch**	**MHz**	**kW**
Gelbelsee	2	87.6	10
Tegernseer Tal	2	87.7	0.3
Reit i. Winkl II	3	87.9	0.1
Büttelb/ Frankenh. II	4	88.2	10
Coburg II	4	88.3	2.4
Achaffenb. II	5	88.4	6
München II	5	88.4	6
Grünten/ Allgäu II	6	88.7	100
Würzburg II	7	89.0	2
Garm. Partenk II	7	89.2	0.5
Wendelstein II	8	89.5	100
Bamberg II	9	89.6	6
Berchtesgaden II	14	91.2	0.3
Lindau II	17	92.0	0.4
Dillberg II	18	92.3	24

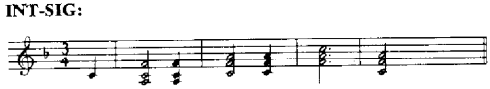
FM:	**ch**	**MHz**	**kW**
Hohe Linie	20	93.0	8
Kreuzb/ Rhön II	20	93.1	100
Passau II	21	93.2	0.3
Hohen- peissenb.	24	94.2	8
Hoher- Bogen II	25	94.4	2
Ochsenkopf/ Fichtelgeb. II	30	96.0	100
Brotjacklriegel II	32	96.5	100
Herzogstand II	33	97.0	0.1
Landshut II	36	97.8	0.1
Bad Reichen- hall II	42	99.5	0.3

N: W 05.00, 06.00, 07.00, 11.00, 17.00, 19.00, 21.00, 23.00; Sun 06.00, 11.05, 19.00, 21.00, 23.00 — **Request Prgr:** Sun 13.00.

THIRD PRGR: Grünten III ch29 95.8MHz 100kW, München III ch34 97.3MHz 15kW, Dillberg III ch36 97.9MHz 12kW, Hühnerberg III ch42 99.5MHz 3kW. **For foreign workers:** 17.00 Turkish, 17.45 Italian, 18.30 Spanish, 19.15 Greek.

ANN: "Hier ist der Bayerische Rundfunk". E: "This is der Bayerische Rundfunk" — **V.** by QSL-card or letter.

INT-SIG:



PUB: "Pressedienst" (weekly) — **AD:** Mon-Fri 05.25-06.00, 12.45-13.30; Sat 05.25-06.00, 06.45-07.00, 08.10-08.50.

DEUTSCHE WELLE
5 Köln 1, Hohenzollernring 62
POB 10 04 44
Federal Republic of Germany

The Deutsche Welle – the Voice of Germany – broadcasts news, reports and commentaries in 30 languages with the aim of giving listeners abroad a picture of life in Germany as well as German views on all important topical issues.
Information and detailed programmes in all languages will be sent to you free of charge.

DEUTSCHE WELLE (Anstalt des öffentlichen Rechts)
ADDR: Hohenzollernring 62/68, P.O. Box 10 04 44, 5. Köln 1. **Te:** 20301. **Telex:** 888485 — **L.P:** Intendant: Walter Steigner. Dir. Political Prgrs. and Chief Editor: Joh. Gross. Dir. Cultural Prgrs: C. von Chmielewski. Dir. Tec: G. Roessler. Dir. Adm: Dr. Heinz Fellhauer. Pub. Rel. and Press: G. Hüebner. DX-Editor: G. G. Thiele.
STATIONS: Jülich (G.C: 06.22E/50.57N) 9×100kW tr's — Kigali/Rwanda (relay) (G.C: 30.07E/01.53S): 2×250 kW tr's.

kHz	m	kHz	m	kHz	m	kHz	m
6025	49.79	7275	41.24	11765	25.50	15380	19.50
6040	49.67	9545	31.43	11785	25.46	15410	19.47
6075	49.38	9565	31.36	11795	25.43	15435	19.44
6100	49.18	9605	31.23	11905	25.20	17705	16.94
6120	49.02	9610	31.22	11925	25.16	17765	16.89
6130	48.94	9640	31.12	11945	25.12	17800	16.85
6145	48.82	9650	31.09	11965	25.07	17845	16.81
6185	48.50	9655	31.07	15190	19.75	17875	16.79
7130	42.08	9690	30.96	15245	19.68	21560	13.91
7150	41.96	9735	30.82	15275	19.64	21580	13.90
7225	41.52	9765	30.72	15320	19.58	21650	13.86
7245	41.41					21705	13.83

OVERSEAS SERVICE
Abbreviations: I=Ea. Asia/Australia/New Zealand; II=So. Asia; III=No. Africa/M. East; IV=Europe; V=Africa; VI=We. Africa; VII=So. America (East); VIII=No. America (East); IX=C. America; X=No. America (West); XI=East Europe; XII=So. Europe.
GERMAN PRGR.

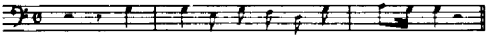
H. of tr.	Area	kHz
07.00-09.10	I	9650,11795,17845,21560
07.00-09.10	IV	6075
09.00-11.10	I	15245,17705,21580
13.00-15.10	II	11765,15275,17875,21705
16.00-18.10	IV	6075
16.00-18.10	III	9655,11795
18.00-20.10	V	11765,15275,9735*
20.30-22.45	VI	11965*,15380*
23.00-01.10	VII	9610,9735,11925,15410*.17800*
00.00-02.15	VIII	6100,6145,9655
02.10-04.15	IX	6100,6145,9605
04.10-06.10	X	6100,6185°,9735

*) Relay st. Kigali — °) to be replaced by 11795 during March, April.
N: 07.00, 08.00, 09.00, 10.00, 11.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 20.30, 21.30, 22.30, 23.00, 00.00, 01.00, 02.00, 03.00, 04.00, 05.00, 06.00 — **Comm:** After first N. — **"Thema des Tages"**; after last N. — **"Wie wir leben"**; Sat — **"Unter uns gesagt"**; Thurs — **DX Prgr:** Every second Tues: 08.15, 10.15, 14.15, 17.15, 19.15, 21.45, 00.15, 01.15, 03.15, 05.15.

FOREIGN LANGUAGE PROGRAMME

H. of tr.	Area	kHz	L	N
01.30-02.50	VIII	6040,6075,9735	**English**	01.32
01.20-02.20	II	7245,9545	**English**	01.22
02.30-03.50	VII	6130,9640,11945	Spanish	02.32
03.15-03.45 }			Swahili	03.17
03.45-04.05 }	V	7150,9545	**English**	03.47
04.05-04.25 }			French	04.07
04.00-04.30 }	XI	6075,7275	Russian	04.02
03.15-04.30 }			Swahili	03.17
04.30-05.00 }	V	7225*,9565*	**English**	04.32
05.00-05.30 }			French	05.02
04.35-05.55	X	6075a,6145,9545	**English**	04.37
04.40-05.10	III/ XII	6130,7275,9605	Turkish	04.42
05.20-06.50	III	9610,11795b,11965	Arabic	05.22
05.45-06.30 }			**English**	05.47
06.30-07.00 }	VI	9690*,11905*	Hausa	06.32
07.00-07.45 }			French	07.02
06.00-06.30 }			**English**	06.02
06.30-07.00 }	V	11785,15275,17765	Hausa	06.32
07.00-07.30 }			French	07.02
08.00-08.30	XI	6145,7130	Polish	08.02
08.00-08.40	XI	6130,7275	S/C	08.02
09.20-10.20	I	11795,15245, 17845,21560	**English**	09.22
09.50-10.40	III	17875,21650	Persian	09.52
10.45-10.55	VIII	9605,11795,11905	**English**	10.47
10.45-11.15 }	V	11785*,15410*	Swahili	10.47
11.15-11.45 }			**English**	11.17
10.45-11.45	XI	9640,11925,11965	Rumanian	10.47
11.00-12.00	XI	6145,6185,7130	C/S	11.02
11.20-12.20	I	9655c,11795,15245	Japanese	11.22
11.50-12.50	I	15190,17845,21705	Mandarin	11.52
12.00-12.45 }			**English**	12.02
12.45-13.15 }	V	15410*,17765*	Hausa	12.47
13.15-14.00 }			French	13.17
12.40-13.50	II	15320,17705,21650	Indonesian	12.42
13.30-14.30	XI	7275,9640	Hungarian	13.32
14.00-15.00	XI	6145,7130,9735	Polish	14.02
14.15-15.00	V	11965*,15435*	Amharic	14.17
14.40-15.50	XI	7275,9640	§S/C	14.42
15.15-16.15	XI	7130,9545, 11925,15245	Russian	15.17
15.15-16.15 }			Swahili	15.17
16.15-16.45 }	V	9735*,11965*	**English**	16.17
16.45-17.30 }			French	16.47
15.20-16.10 }			Hindi	15.22
15.50-16.10 }	II	11765,15275	†Sanskrit	
16.10-17.00 }			Urdu	16.12
17.00-17.35 }			**English**	17.02
16.20-17.05	XI	6025,7130	C/S	16.22
16.20-17.20	III	9765,11925	Persian	16.22
17.10-18.10	XI	7225d,9545	Bulgarian	17.12
17.25-17.55	XII	6025,7130	Italian	17.27
17.45-18.45 }			**English**	17.47
18.45-19.45 }	VI	15435*	French	18.47
19.45-20.15 }			Hausa	19.47
18.00-19.00	XI	7150,9765	Russian	18.02
18.20-18.50	III/ XII	7225d,9545,11795	Turkish	18.22
18.20-19.20	XI	6075,7130	Rumanian	18.22
19.00-19.10	VIII	9605e,11795,15245	**English**	19.02
19.20-20.50	III	9655,9765,11795	Arabic	19.22
19.40-20.40	XII	6075,7130	Greek	19.42
19.40-20.30	XII	6120,9605	Spanish	19.42
20.40-21.30	XII	6120,9605	Portuguese	20.42
21.00-21.25	III	7150,9655,9735	Maghreb.	21.02
21.00-22.00	I	7130,9765,15275	**English**	23.02
21.40-23.00 }	VII/	9545,9690,11795	Portuguese	21.42
23.00-00.30 }	IX		Spanish	21.02

*) Relay st. Kigali — §) Slovenian 1520-1550 (Tues/Thurs/Sat) — †) Sanskrit every second Thursday. S/C=Serbo Croat; C/S=Czech/Slovak.
During March/April to be replaced by a) 11945kHz; b) 15320kHz; c) 17800kHz; d) 7245kHz; e) 17705kHz.
ANN: G: "Hier ist die Deutsche Welle". E: "This is R. Deutsche Welle, the Voice of Germany". F: "Ici la Voix de l'Allemagne". Sp: "Habla la Voz de Alemania". P: "Esta é Voz de Alemanha".
INT-SIG: Motif from "Fidelio" by Beethoven. "Es sucht der Bruder seine Brüder" played on Celeste.



V. by QSL-card (10 min. prgr. details required). Recordings accepted — **PUB:** Monthly Prgr. sched. free.

DEUTSCHLANDFUNK (Gemeinnützige Anstalt des Öffentlichen Rechts)
Purpose: Veranstaltung von Rundfunksendungen für Deutschland und das europäische Ausland, die ein umfassendes Bild Deutschlands vermitteln.
ADDR: 5 Köln-Marienburg, Lindenallee 7. **Te:** 37031. **Telex:** 0888-1262 — **L.P:** Intendant: F. Thedieck. Dir. Actual Prgr: St. Thomas. Dir. Cultural Prgr: Dr. J. Petersen. Dir. European Prgr: Dr. J. Reiss. Sendeleiter: E. Imelmann. Verwaltungsdirektor and Justitiar: Freiherr von Sell. Dir. of Engineering: O. Scheffler. Chief Press Dept: Dipl. Pol. H. Rülke.
STATIONS:

kHz	m	kW		kHz	m	kW
Donebach	151	1986 70	Königs-			
Königslutter	548	547.4 800	lutter*	755	397.4	200
Bad			Neumünster	1268	236.6	600
Dürrheim	548	547.4 20	Mainflingen	1538	195.1	700
Ravensburg	755	397.4 40				

*Experimental; daytime only.
N: Every h on the h 04.00-03.00, also at 03.30, 04.30, 05.30, 06.30, 18.30, 20.30. **Deutsche Presseschau:** W 06.05, 08.05 — **Interview der Woche:** Sun 10.05 — **Landfunk:** W 10.50 — **Revue der Woche:** Sat 11.30 — **Internationale Presseschau:** W 16.50 — **Politische Bücher:** Sun 16.45 — **Wirtschaftsfunk:** Mon-Fri 17.05 — **Deutschlandecho:** W 18.05 — **Die Woche in Deutschland:** Sat 18.45 — **Themen des Tages:** Mon-Fri 18.45 — **Thema der Zeit:** Sun 18.45 — **Prisma der Welt:** Mon, Tues, Thurs, Fri 20.40 — **Das Feuilleton:** Sun, Wed, Sat 20.40 — **Echo der Zeit:** Sun 21.00.
FOREIGN SERVICE: On 1538kHz: W 19.00-22.10 19.00 Polish, 19.30 Czech, 20.00 Serbian/Croatian, 20.30 Rumanian, 21.00 Hungarian, 21.30 French. **On 1268kHz:** W 17.45-21.00. English 17.45, German 18.30, Dutch 19.00, Danish 19.30, Norwegian 20.00, Swedish 20.30.
DX-Prgr: "MW 1268kHz": Swedish Wed, Sat 20.45; Norwegian: Tues 20.10.

DEUTSCHLANDFUNK

broadcasts on

Long Wave	151 kcs	1986.8 m
Medium Wave	1538 kcs	195 m
	1268 kcs	236.5 m
	755 kcs	397 m
	548 kcs	547 m

A German-language programme

round the clock, with 29 news bulletins – at the hour and half-hourly in the morning

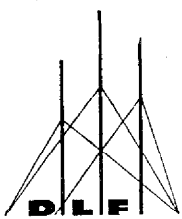
and for Europe, 13 foreign-language programmes

on 1538 kcs

Polish	19.00-19.30 GMT
Czech or Slovak	19.30-20.00
Serbo-Croat	20.00-20.30
Rumanian	20.30-21.00
Hungarian	21.00-21.30
French	21.30-22.30

on 1268 kcs

English	17.45-18.30
German	18.30-19.00
Dutch	19.00-19.30
Danish	19.30-20.00
Norwegian	20.00-20.30
Swedish	20.30-21.00



5 COLOGNE 51

Lindenallee 7

Federal Republic of Germany

(Tel. 02 21/3 70 31)

ANN: "Hier ist der Deutschlandfunk" — **INT-SIG:** "Du Land voll Lieb' und Leben" from the folksong "Ich hab' mich ergeben" (played on Celeste).

EUROPE NO. 1 (Comm.)
ADDR: Europäische Rundfunk und Fernseh AG, Europa Nr. 1, 6600 Saarbrücken, P.O. Box 301. **Te:** 24162. **L.P:** Mgr: F. Billmann. **For Programmes:** Télécompagnie 26 bis, Rue Francois Ier, Paris 8è. **Cable:** Euradio. **Te:** Alma 9000 — **L.P:** Pres: S. Floirat. Gen. Mgr: M. Siegel — **For Advertisements:** Regie No. 1, 28, Rue Francois Ier, Paris 8e — **L.P:** Gen. Mgr: J. Frydman. **STATION:** Felsberg 180kHz 1667m 400/1000kW. **HOME SCE: In French:** 04.55 (Sun 05.30)-24.00. **N:** 04.55, 05.25, 05.55, 06.25, 06.55, 07.25, 07.55, 08.30, 09.00, 09.30, 10.00, 10.30, 11.00, 13.00, 13.30, 14.00, 14.30, 15.00, 15.30, 16.00, 16.30, 17.00, 17.30, 20.00, 20.30, 21.00, 22.00, 22.30, 23.30, 24.00.
ANN: F: "Ici Europe No. 1" — **V.** by QSL-card. **Re.** to Europe No. 1, Saarlouis, P.O. Box 209, Germany.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
ADDR: 6000 Frankfurt (Main) 1, Postfach 3294, Bertramstr. 8. **Cable:** Hessfunk. **Te:** 59051. **Telex:** 0411127. **L.P:** Interdant: W. Hess. Dir. Adm: Dipl. Kfm: H. Weber. Chief Legal Adviser: W. Lehr. Publicity: R. Weigand. Press: G. Zimmermann. Dir. Prgr. (Radio): Dr. H. Wicht. Dir. Prgr. (TV): H. Otto Grünefeldt. Dir. Tec: Dr. Ing. F. Miseré. Politic and N: Chief Editor O. Herr. Culture: Dr. A. Frisé. Educ: Prof. G. Kadelbach. Music: Dr. H. W. Kulenkampff. Entertainment: W. Jaspert. Head of N: F. F. Sackenheim.
STATIONS: Prgr. I: *) Stereo.
Frankfurt 593kHz 505.8m 150/400kW d — Meissner 593kHz 505.8m 100kW d.

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Würzberg	4	88.1	0.25	Feldberg*	32	96.7	10
Biedenkopf	13	91.0	10	Würzberg	35	97.4	0.25
Rimberg	14	91.25	3	Biedenkopf*	42	99.6	10
Hardberg	12	90.6	3	**Prgr. III**			
Feldberg	25	94.4	10	Biedenkopf	2	87.6	10
Meissner	40	99.0	10	Feldberg*	8	89.3	10
Prgr. II:				Meissner*	8	89.5	10
Rimberg*	27	95.0	3	Hardberg*	19	92.65	0.8
Hardberg*	28	95.3	3	Rimberg*	36	97.7	3
Meissner*	28	95.5	10				

HOME SCE: Two prgr's day and night. The night prgr. at 23.10-05.00 on 593kHz (Frankfurt and Meissner) and FM ch25 and 40 — **N:** Every h on the h — **Wrp:** After N.
Third Prgr: D 16.00-21.50 for Italian, Turkish, Spanish, and Greek workers in the Fed. Rep. of Germany.
ANN: "Hier ist der Hessische Rundfunk" — **INT-SIG:** Electronic music — **V.** by QSL-card — **PUB:** Prgr. Sched, press releases.

NORDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
ADDR: Hamburg 13, Rothenbaumchaussee 132/34. **Cable:** Nordfunk. **Te:** 441931. Funkhaus Hannover: Rudolf-von-Bennigsen-Ufer 22. **Studios:** Flensburg: Friedrich-Ebert-Str. 1; Oldenburg i. O. Jägerstr. 30; Berlin: Berlin-Grünewald, Hubertusalle 26; Bonner Vertretung, Bonn, Dahlmanstr. 14; Landesstudio Kiel: Wall 74. **L.P:** Intendant: G. Schröder. Deputy: L. Frhr. v. Hammerstein. Dir. Prgr. (Radio): F. Reinholz. Dir. Prgr. (TV): D. Schwarzkopf. Financial Dir: G. Schulz. Dir. Tec: Dr. H. Rindfleisch. Justitiar: J. Frels. Dir. Funkhaus Hannover: Dr. E. G. Mahrenholz. Informations und Auslandsdienst: M. Jenke.

HOME SERVICE
FIRST PRGR: 04.55-24.00.
Night Prgr. on 971kHz (Hamburg), 1570kHz (Osnabrück), 701kHz (Flensburg), 520kHz Hannover and all First and Second Prgr. FM transmitters: 00.00-04.55.
N: 01.00, 02.00, 03.00, 04.00.

	kHz	m	kW		kHz	m	kW
Hannover	520	577	20	Flensburg	701	428	5
Aurich	701	428	2	Oldenburg	971	309	40
Lingen	701	428	2	Kiel	1570	191	5
Göttingen	971	309	5	Osnabrück	1570	191	5
Hamburg	971	309	300				

FM Stations (relay m.w. prgr. exc. night prgr.):

	ch	MHz	kW		ch	MHz	kW
Göttingen	5	88.55	1.2	Stein-			
Bungsberg	10	89.9	4.5	kimmen	14	91.1	70
Harz	10	89.9	100	Dannenberg	14	91.2	15
Aurich	10	90.05	25	Kiel	14	91.3	3
Hamburg	11	90.3	80	Osnabrück	18	92.4	2
Heide	12	90.5	15	Lingen	19	92.8	15
Hannover	13	90.9	3	Lübeck	20	93.1	0.06
				Flensburg	30	96.05	3

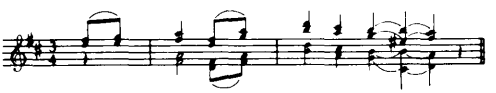
N, Wrp: 05.00 (W), 06.00, 07.00, 08.00, 09.00 (W), 10.00 (W), 11.00 (W), 12.00, 13.00 (Mon-Fri), 14.00, 15.00 (Mon-Fri), 16.00, 17.00 (Mon-Fri), 18.00, 21.00, 22.00, 23.00 — **Rlg:** Sun 09.00, (W) 05.55.
SECOND PRGR: 04.58 (Sun 06.28)-24.00.
Night Prgr: 00.00-04.58 (Sun 06.28). **N:** 00.00, 01.00, 02.00, 03.00, 04.00.

	ch	MHz	kW		ch	MHz	kW
Hamburg	2	87.6	80	Göttingen	30	96.1	1.2
Osnabrück	7	89.2	2	Hannover	30	95.9	3
Lübeck	13	90.9	0.06	Heide	31	96.3	15
Bungsberg	16	91.9	4.5	Lingen	36	97.8	15
Harz	17	92.1	100	Aurich	37	98.15	25
Dannenberg	21	93.3	5	Kiel	38	98.3	3
Flensburg	21	93.2	15	Stien-			
				kimmen	43	99.8	70

N: 05.30 (W), 06.30 (W), 07.30, 08.30 (W), 09.30 (W), 10.30, 11.30 (W), 12.30 (Sun-Fri), 13.30 (Mon-Fri), 14.30, 15.30 (Mon-Fri), 16.30 (Mon-Fri), 17.30, 18.30, 20.30, 21.30 (Mon-Fri), 22.30 — **Rlg:** W 05.05, Mon-Fri 07.35.
THIRD PRGR: 19.00-22.00. **N:** 19.00.

	ch	MHz	kW		ch	MHz	kW
Flensburg	9	89.6	15	Dannenberg	31	96.4	1.2
Lingen	11	90.2	1.25	Bungsberg	36	97.8	4.5
Göttingen	24	94.1	1	Harz	37	98.0	100
Stein-				Hannover	39	98.7	3
kimmen	25	94.4	70	Osnabrück	39	98.8	2
Kiel	25	94.5	3	Hamburg	41	99.2	80
Lübeck	29	95.7	0.06	Heide	41	99.4	15
Aurich	29	95.8	25				

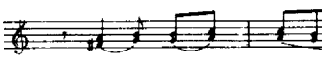
Prgr. for Foreign workers:
Braunschweig ch2 87.7MHz 0.5kW, Hannover ch19 92.65MHz 0.3kW, Hamburg ch17 92.2MHz 0.35kW.
ANN: 1st Prgr: "Hier ist das Erste Programm des Norddeutschen Rundfunks". 2nd Prgr: "Hier ist das Zweite Programm des Norddeutschen Rundfunks". 3rd Prgr: "Hier ist das Dritte Program des Norddeutschen Rundfunks und des Senders Freies Berlin".
INT-SIG: 1st Prgr: Motiv from the first movement of Johs, Brahms Symphony no. 2.



2nd Prgr: "Einen zerlegten Nonen-Akkord" — **3rd Prgr:** The tones "B-A-C-H" in Regerharmonization — **V.** by QSL-card — **PUB:** "NDR-Information" (weekly), "NDR-Vorschau" (weekly), Prgr. sched. (weekly).

RADIO BREMEN
ADDR: Heinr. Hertz Str. 13, Bremen. Te: 45881. **Cable:** Radio — **L.P:** Dir. Prgr: Dr. Eckart Heimendahl. Dir. Tec: H. Heyer. Dir. Adm: H. Oliver.
HOME SCE: Hansawelle Bremen: (First Prgr.): 05.00 (Sun 06.00)-23.10.
1079kHz 278.0m 100kW* — 1358kHz 220.9m 20kW† — Bremerhaven 1079kHz 278.0m 2kW††+SW: 6190kHz 48.47m 10kW (G.C: 08.53E/53.07N) — *) daytime; †) at night.
FM: Bremen I ch23 93.8MHz 100kW — Bremerhaven I ch8 89.5MHz 5 kW.
N, Wrp, Comm: W 05.05, 05.30, 06.00, 06.30, 07.00, 12.00, 15.00 (Sat only), 15.30, 16.30 (exc. Sat), 18.00, 21.00, 23.00; Sun 07.00, 12.00, 18.00, 21.00, 23.00.
Second Prgr: W 05.10-22.10 (exc. Mon-Fri 11.00-14.30, Sat 11.00-15.05); Sun 09.00-21.30 (exc. 12.00-15.00). Bremen II ch4 88.3MHz 100kW — Bremerhaven ch17 92.1MHz 5kW.
N: W 20.00, 22.00 (exc. Sat); Sun 09.00, 22.00 — **L.L: English:** Tues 15.15, Wed 08.45, 15.00; Thurs 08.30, 15.00*, Fri 08.30* — **French:** Thurs 15.00*, Fri 08.30*. *)=fortnightly.
ANN: "Hier ist die Hansawelle Bremen bzw. Radio Bremen mit seinem zweiten Prgr."

INT-SIG:



V. by QSL-card. Rp. Re. in E, F, or G — **PUB:** Prgr. sched. free on request to Pressestelle, Radio Bremen.

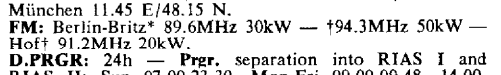
RIAS-BERLIN

ADDR: 1 Berlin 62, Kufsteiner Str. 69. **Cable:** Rias-Berlin. **Te:** 21301. **L.P:** Dir: G. M. Gert. Intendant: R. Müllerbura. Dir. Prgr: H. Kundler. Dir. Tec: A. Posniker. Chief Eng: O. v. Broecker. Dir. Adm: P. Naegele. Dir. Listeners' Rel. and Press: M. Maass.

STATIONS: *) RIAS I; †) RIAS II.

	kHz	m	kW	h. of tr.
Berlin-Britz†	683	439	100	07.41a-15.40
Hof*	683	439	40d	03.25b-07.40c 15.41-00.35
Hof*	737	407	40	07.41a-15.40
Berlin-Britz†	854	351	100d	03.25b-07.40c 15.41-23.40d
Berlin-Britz*	989	303	300	03.25b-23.40d
Berlin-Britz*			200	23.40d-01.35
			100	01.35-03.15e
	6005	49.96	20	17.30-03.15e
München*	6005	49.96	100	03.25b-17.30

a) Sat, Sun 07.36 — b) Sun 04.00 — c) Sat, Sun 07.35 — d) Sat, Sun 23.35 — e) Sun 03.50.
G.C.: Berlin 13.26E/52.27N — Hof 11.54E/50.19N — München 11.45 E/48.15 N.
FM: Berlin-Britz* 89.6MHz 30kW — †94.3MHz 50kW — Hof† 91.2MHz 20kW.
D.PRGR: 24h — **Prgr.** separation into RIAS I and RIAS II: Sun 07.00-23.30, Mon-Fri 09.00-09.48, 14.00-14.45, 15.00-15.30 (Wed only), 16.00-23.30, Sat 11.50-23.30. All other times common prgr. (RIAS I+RIAS II).
N, Wrp: 00.30, 01.30, 02.30, 03.30, 04.30, 05.30, 06.30, 07.30, 08.30, 09.30 (RIAS I Mon-Fri), 10.30 (W), 11.30, 12.30 (W), 13.30, 14.30 (RIAS I Mon-Fri), 15.30, 16.30 (W RIAS I), 17.30, 18.30, 20.30 (RIAS I), 20.30 (RIAS II Sat), 21.30 (Mon-Fri), 21.30 (Sun RIAS II), 22.30 (RIAS I), 22.30 (RIAS II Sat), 23.30 RIAS II: 14.05 (Sun), 15.41 (Sun).
ANN: "Hier ist RIAS-Berlin" — **INT-SIG:** From a Trio Sonata:



V. by QSL-card — **PUB:** Press service weekly RIAS education broadcast press service every six weeks — **FI:** By United States Information Agency.

SAARLANDISCHER RUNDFUNK
(Gemeinmützige Anstalt des öffentlichen Rechts)

ADDR: 66 Saarbrücken, Postfach 1050. **Te:** 6021. **Cable:** Radio Saarbrücken. **Telex:** 4428977 — **L.P:** Intendant: Dr. Fr. Mai. Verwaltungs Dir: Dipl. Volkswirt, H. Fünfgeld. Chefradakteur: Karl Heinz Reintgen. Prgr. Dir: Dr. W. Zilius.

STATIONS: E=Europawelle; S=Studiowelle.

Heusweiler	1421kHz	211.2m	400kW	E
Göttelborner Höhe I	ch3	88.0MHz	100kW	E
Moseltal II	ch5	88.6MHz	5kW	S
Göttelborner Höhe II	ch14	91.3MHz	100kW	S
Moseltal I	ch16	91.9MHz	5kW	E
Göttelborner Höhe III	ch28	95.5MHz	100kW	S
Moseltal III	ch30	96.1MHz	5kW	S

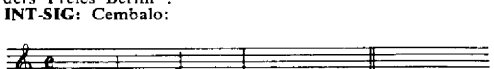
HOME SCE. in German:
Europawelle Saar: D 04.00-24.00 (00.00-04.00 ARD Night Prgr).
N, Wrp: On the h exc. 20.00.
Studiowelle Saar (FM II+III): Mon-Fri 05.05-07.00, 10.00-13.00, 15.00-20.00; Sat 05.05-07.00, 10.00-20.00; Sun 06.05-11.00, 12.30-20.30 (at prgr. free times between 03.05 and 23.00 relay at Europawelle Saar).
ANN: "Hier ist die Eropawelle Saar des Saarländischen Rundfunks auf 211m=1421kHz und auf UKW, Kanal 3, 88.0MHz" oder "Hier ist die Studiowelle Saar des Saarländischen Rundfunks auf UKW II und III, Kanal 14, 91.3MHz und Kanal 28, 95.6MHz.

INT-SIG:

V. by QSL-card — **PUB:** Prgr. schedule, quarterly schedules, winter prgr's (yearly).
AD: Eropawelle Saar: 05.00-08.00, 09.00-11.30, 12.00-14.00, 16.00-17.45, 18.20-19.00, 22.00-23.00.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

AD: SFB1: W 05.05-06.00, 06.15-07.00, 10.45-11.00, 11.03-11.30, 14.05-14.30.
ADDR: Masuren Allée 8-14, 1 Berlin 19. **Te:** 3081. **Telex:** 182813. **Cable:** Sender Freies Berlin — **L.P:** Vorsitzender d. Rundfunkrates: Dr. F. Suchan. Intendant: Franz Barsig. Dir. Prgr: E. Shütz. Dir. Tech: E. Böhnke. Dir. Adm: H. Koch. Chief Editor: Dr. P. Pechel.
STATIONS: 1st Prgr:
566kHz 530.0m 100/20kW* — FM: 88.75MHz 10kW.
2nd and 3rd Prgr:
1484kHz 202.2m 5kW — **FM:** 92.4MHz 96.3MHz (both 10kW).
*) 00.00 until sunset 100kW (omnidirectional antenna), from sunset until 24.00 20kW (screened in direction of Ireland).
HOME SCE: SFB1: 03.58 (Sun 04.58)-03.30 (Sat 04.30) also on 1484kHz/92.4/96.3MHz if not in use for 2nd and 3rd Prgr.
N, Wrp. SFB1: W hourly exc. 19.00, 20.00 and Sat 17.00; Sun 05.00, 06.00, 07.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 19.00, 21.00, 22.00, 23.00. SFB2: Mon-Fri 05.06-07.00, 08.05-10.00, 14.30-19.00, 21.30-23.00; Sat 05.06-12.00, 13.45-19.00; Sun 07.05-19.00.
N, Wrp: Mon-Fri 06.00, 09.00; Sat 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 14.00, 15.00, 17.00; Sun 09.00, 13.00.
Actualities: SFB1: Mon-Fri 10.05, 11.45, 17.30; Sat 10.05. SFB2: W 05.06.
"Unser Kurzwellenbummel" (a prgr. for sw-friends compiled and produced by W. Uthoff): SFB2 every 4th Sat (as Jan. 11, Feb. 8, etc) 22.05-22.20; repeat SFB1 every 4th Sun (as Jan. 12, Feb. 9, etc), 06.45-07.00.
3rd Prgr: (until May 31st) 19.00-22.00 (SFB/NDR); **N:** 19.00, up from June 1st 19.00-21.30 approx. (SFB/WDR Recordings of International Music Festivals.)
For Foreign Workers (on 98.2MHz, 3kW): D 17.00-20.00 (in Turkish/Italian/Spanish/Greek 45 min. each), 20.00-22.00; Sun also 11.00-14.00 Musical Prgr. with ann. in 5 languages.
ANN: "Hier ist SFB I/SFB II". "Hier ist das Dritte Programm des Norddeutschen Rundfunks und des Senders Freies Berlin".
INT-SIG: Cembalo:



V. by QSL-card — **PUB:** "Vorschau" (weekly).

SUDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR: 7000 Stuttgart-1, P.O. Box 837. **Cable:** Rundfunk, Stuttgart. **Te:** 20701. **Telex:** 0723456.
Studios: Heidelberg-Mannheim: Heidelberg, Marstallstr. 6; Karlsruhe: Kriegsstr. 168 — **L.P:** Vorsitzender des Rundfunkrats: Oberkirchenrat Dr. Manfred Müller. Vorsitzender des Verwaltungsrats: Dr. Alex Möller, Generaldir. (MdB), Karlsruhe. Intendant: Dr. Hans Bausch. Programmdir: Dr. Peter Kehm. Verwaltungsdir: Friedrich Müller. Technischer Dir: Dr. Helmut Rupp. Dir. TV: Horst Jaedicke.
HOME SCE: Mw Prgr. (rel. by sw and FM): Sun 04.55-03.30; Mon 03.51-03.30; Tues-Fri: 03.56-03.30; Sat 03.56-04.30 (No breaks in tr's).

Stations:	kHz	m	kW	Stations:	kHz	m	kW
Mühlacker	575	522	300	Bad Mergenth.	1412	212	2
Heidelberg	998	301	10	Wertheim	1484	202	0.2
Buchen Walldürn	998	301	0.2	Heidenheim	1484	202	0.2
Ulm-Jungingen	1169	257	5	Bopfingen	1484	202	0.2
Heilbronn-Obereisesh.	1169	257	10	Adelsheim	1484	202	0.2

Short Wave: Mühlacker: 6030kHz 49.75m 20kW.
G.C: 08.51E/48.57N: 03.55 (Sun 04.55)-03.30 (Sat/Sun 24.00).

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Stuttgart I	3	88.0	0.5	Aalen I	27	95.1	50
Ulm I	25	94.5	1	Geislingen I	28	95.5	0.5
Stuttgart I	26	94.7	100	Heidelberg I	36	97.8	100
				Waldenburg I	39	98.8	100

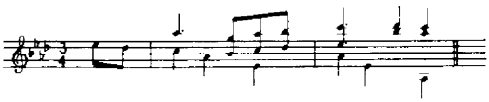
N: 04.30, 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 11.30, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 21.00, 23.00.
FM: 2nd Prgr: Sun 07.05-23.10; Mon, Tues, Wed, Fri 04.35-23.15; Thurs 03.45-23.15; Sat 04.35-01.00.

	ch	MHz	kW		ch	MHz	kW
Heidelberg II	6	88.8	100	Wertheim II	16	91.8	0.1
Ulm II	7	89.2	1	Buchen	16	91.9	0.1
Mühlacker	8	89.5	4.5	Geislingen II	20	93.0	0.5
Stuttgart II	10	90.1	100	B. Mergenth			
Aalen II	14	91.1	50	II	21	93.2	0.5
				Waldenburg II	23	93.8	100

N: 05.30, 06.30, 07.30, 12.00, 13.00, 16.30, 17.30, 18.30, 21.30, 23.00.
FM (3rd Prgr): For Foreigners.

	ch	MHz	kW		ch	MHz	kW
Stuttgart III	17	92.2	100	Aalen III	37	98.1	50
Waldenburg III	32	96.5	100	Heidelberg III	43	99.9	100
Ulm III	35	97.4	1				

17.00 Turkish, 17.45 Italian, 18.30 Spanish, 19.15 Greek.
ANN: "Hier ist der Süddeutsche Rundfunk" — **INT-SIG:** The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele".



V. by QSL-card.

SUDWESTFUNK (Anstalt des öffentlichen Rechts)
ADDR: 7570 Baden-Baden, Hans-Bredow-Str. **Cable:** Südwestfunk. **Te:** 2761 — **Studios:** 7800 **Freiburg:** Günterstal, Schauinsland Str. 136; 6500 **Mainz:** Deutschhausplatz 8; 7400 **Tübingen:** Matthias-Koch-Weg 7 — "Zweigstellen": 6750 **Kaiserslautern:** Fliegstr. 36; 5400 **Koblenz:** Janurius-Zick-Str. 8; 7750 **Konstanz:** Wollmatingerstr. 39; 5500 **Trier:** Christophstr 24 — **L.P:** Vorsitzender des Rundfunkrates: J. Saxler Daun. Vorsitzender des Verwaltungsrates: A. Dichtel, Freiburg i Br. Intendant: H. Hammerschmidt. Programmdir. u stellvertretender Intendant: G. Gaus. Tech. Dir: Dr. W. Knöpfel. Verwaltungsdir: A. Manke. Justitiar: Dr. E. Wagner. Öffentlichkeitsarbeit: H. Scharfenberg. Leiter Studio Freiburg: E. Brugger. Dir. Studio Mainz: T. W. Zwermann. Leiter Studio Tübingen: A. G. Richter. Head of Prgr. Exchange: H. Schliewen.

HOME SCE: 1st Prgr: Sun 05.50-24.00, W 03.55-23.10 (Fri 24.00, Sat 01.00) — **"Musik bis zum frühen Morgen"** on 1016kHz only (Rheinsender): Sun 00.00-03.50; Tues, Thurs 23.10-03.50; Sat 01.00-05.00.

M. Waves:	kHz	m	kW	M. Waves:	kHz	m	kW
Bodensee-sender	665	451	300	Kaisers-lautern	827	363	3
Baden-Baden	827	363	1.5	Koblenz	827	363	0.5
Freiburg	827	363	3	Trier	827	363	3
				Rheinsender	1016	295	300

Short Wave: Rohrdorf (G.C: 09.07E/48.01N): 7265kHz 41.25m 1.5kW.

FM (with stereoprgr's):	ch	MHz	kW		ch	MHz	kW
Baden-Baden	13	90.9	0.5	Hornisgrinde	22	93.5	60
Blauen	7	89.2	8.4	Koblenz	30	96.05	10
Donnersberg	40	99.1	60	Linz	18	92.4	18
Eggberg	33	97.0	0.6	Mainz	15	91.4	0.1
Eifel	14	91.1	8	Marienberg	9	89.8	25
Feldberg i Schw.	9	89.8	1	Potzberg	13	90.8	20
Haardtkopf	36	97.7	25	Raichberg	4	88.3	12
Hochrhein-send.	3	88.0	0.07	Waldburg	14	91.2	18
Hohe Möhr I	7	89.1	0.5	Wannenberg	7	89.0	1
				Witthoh	18	92.4	37.5

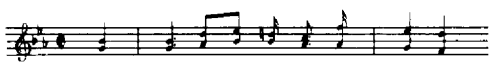
N, Wrp: 04.00 (W), 06.00 (Sun), 06.30 (W), 07.30 (Sun), 08.30 (W), 11.00 (Sat/Sun), 19.00 (W), 21.30, 23.00. **"Pressestimmen":** Mon-Fri 11.00. **2nd Prgr:** Sun 05.30-24.00; W 03.55-23.10 (Fri 24.00, Sat 01.00).

FM (with stereoprgr's):	ch	MHz	kW		ch	MHz	kW
Baden-Baden	40	98.9	0.5	Hohe Möhr II	19	92.7	0.5
Blauen	19	92.6	8.4	Hornisgrinde	31	96.2	60
Donnersberg	17	92.0	60	Koblenz	23	94.0	10
Eggberg	38	98.5	0.6	Linz	35	97.4	18
Feldberg i Schw.	36	97.9	1	Marienberg	28	95.4	25
Haardtkopf	20	93.0	25	Potzberg	23	93.9	20
Hochrhein-sender	12	91.1	0.07	Raichberg	16	91.8	12
				Waldburg	26	94.9	18
				Wannenberg	19	92.8	1
				Wittoh	11	90.4	37.5

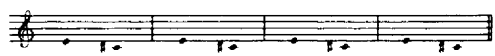
N, Wrp: 04.00 (W), 05.00 (W), 06.00, 07.00, 09.00 (W), 12.00, 16.00 (W), 21.00, 23.00 — **"Tribüne der Zeit":** 18.30 — **Prgr. III:** Sun 10.50-21.00, W 16.40-21.00 (Mon, Tues, Fri, Sat also 06.57-07.30.

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Donnersberg	10	89.9	30	Hornisgrinde	38	98.4	9
Feldberg i Schw.	23	93.8	1	Koblenz	15	91.6	10
				Raichberg	24	94.3	4
Hohe Möhr III	33	96.8	0.5	Walburg	39	98.7	18

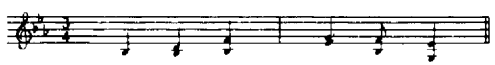
L.L: English: Mon, Tues, Fri, Sat 07.10-07.30. **For Foreign Workers:** 16.55-21.00, 17.00 Turkish, 17.45 Italian, 18.30 Spanish, 19.15 Greek, 20.00 Music.
ANN: "Hier ist der Südwestfunk. Im I. Programm hören Sie . . ." Im 2. Programm hören Sie . . ."
INT-SIG: Baden-Baden: Motif from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verküden" (piano).



Freiburg: Glockenmotiv des Freiburger Münsters: "Petrus und Maria".



Mainz: "Dort wo der Rhein mit seinen Wellen".
Tübingen: "Droben im Oberland" (2 horns).



V. by QSL-card and letter. Rp

WESTDEUTSCHER RUNDFUNK (WDR)
(Anstalt des öffentlichen Rechts)
ADDR: Wallrafplatz 5, Köln. **Te:** 2201. **Cable:** WDR. **Studios:** 53 Bonn, Dahlmannstrasse 14; 4 Düsseldorf. Palmenstrasse 16; 46 Dortmund, Westenhellweg 86-88; 44 Münster, Ludgeriplatz; 48 Bielefeld, Lessingstrasse 3; 43 Essen, Lindenallee 56.
L.P: Intendant: Klaus von Bismarck. Dir. Radio: Dr. Fritz Brühl, Dir. Tec: W. Werner.
HOME SCE: First Prgr. (common WDR and NDR prgr): W 04.55-09.40, 10.00-00.15; Sun 04.55-00.15 — **Night Prgr.** (on 1586kHz, 88.8 and 90.6MHz only): 00.10-04.50.
Medium Waves:

	kHz	m	kW		kHz	m	kW
Aachen/Stolb	701	428	5	Kleve	971	309	3
Herford	701	428	2	Münster	1502	199	0.8
Siegen	701	428	2	Langenberg	1586	189	800
Bonn	971	309	5				

FM, Common WDR and NDR (First prgr.):

	ch	MHz	kW		ch	MHz	kW
Monschau	2	87.7	0.04	Wittgenstein	6	88.7	15
Aachen/Stolb	3	88.0	5	Nordhelle	11	90.3	15
Köln	3	87.8	0.5	Teutob. Wald	12	90.6	100
Bonn	4	88.3	0.5	Münster	17	92.6	6
Langenberg	6	88.8	100	Siegen	34	97.1	0.5
				Kleve	42	99.7	0.25

N, Wrp: 05.00 (W), 06.00, 07.00, 07.05 (Sun, Church N), 08.00, 09.00 (W), 10.00, 11.00 (W), 12.00, 13.00 (W), 14.00, 15.00 (W), 16.00, 17.00 (W), 18.00, 21.00, 22.00, 23.00 — **Comm:** Mon-Fri 12.10, 18.10, 21.05 — **Wrp:** Repeats of short version within music prgr's at 05.30, 06.30, 07.30.
Second Prgr: 04.45-23.00 (Sat 24.00), Sun 05.55-23.00.

	ch	MHz	kW		ch	MHz	kW
Köln	16	91.8	0.5	Eifel	22	93.6	6
Wittgenstein	18	92.3	15	Nordhelle	22	93.5	15
Bonn	19	92.8	0.5	Aachen/Stolb	23	93.9	5
Siegen	19	92.6	0.5	Monschau	24	94.2	0.04
Kleve	21	93.3	0.25	Münster	24	94.1	6
Teutob. Wald	21	93.2	100	Langenberg	27	95.1	100

N, Wrp: W 05.30, 06.30, 07.30, 09.30, 11.30, 14.30, 16.30 (no Wrp.), 18.30, 21.30, 22.30. Sun 07.30, 11.45, 18.30, 21.30.
3rd Prgr: W 09.20-10.30 (Sat 10.45), 13.55 (Sat 13.25)-21.30 (approx); Sun 13.25-21.30 (approx).

	ch	MHz	kW		ch	MHz	kW
Siegen	4	88.2	0.5	Stolberg	30	95.9	5
Münster	9	89.7	18	Teutob. Wald	33	97.0	100
Bonn	12	95.7	0.5	Kleve	34	97.3	0.25
Köln	29	95.7	0.5	Nordhelle	37	98.1	15
Wittgenstein	29	95.8	15	Monschau	37	98.2	0.04
Aachen/				Langenberg	41	99.2	100

N: D 18.45, 22.00 — **Prgr. for Foreign Workers:** W 16.55-22.00; Sun 10.55-14.00, 16.55-22.00.
Aachen-Stolberg ch52 102.5MHz 0.5kW — Langenberg ch45 100.4MHz 50kW — Teutoburger Wald ch4 88.1 MHz 3kW.
ANN: First Prgr: "Westdeutscher Rundfunk Erstes Programm". Second Prgr: "Westdeutscher Rundfunk, Zweites Programm". Third Prgr: "Westdeutscher Rundfunk, Drittes Programm", **INT-SIG:** First Prgr: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument.

V. by QSL-card or letter. Rec. to Technische Direktion.

AMERICAN FORCES NETWORK (United States Army)

ADDR: Headquarters, AFN Europe, 6000 Frankfurt/Main, Bertramstrasse 6 or APO New York, NY 09757, U.S.A. **Te:** Frankfurt Mil 7901 — **L.P:** Commanding Officer: LTC A. A. Jones. Prgr. Dir: R. J. Harlan. Tech. Dir: F. C. Mortensen.

STATIONS:	**kHz**	**m**	**kW**		**kHz**	**m**	**kW**
Nürnberg*	611	491	10	Schweinfurt	1142	263	0.25
Grafenwöhr	611	491	10	Würzburg	1142	263	0.25
Kaisers-lautern*	611	491	10	Bamberg	1304	230	0.25
Frankfurt†	872	344	150	Berchtes-gaden	1304	230	0.25
Berlin*	935	321	10	Heidelberg	1304	230	1
Ansbach	1034	290	0.25	Regensburg	1304	230	0.25
Bad Kissingen	1034	290	0.25	Fulda	1304	230	0.25
Karlsruhe	1034	290	1	Wertheim	1304	230	0.25
Munich*	1106	271	50	Augsburg	1394	215	1
Stuttgart*	1142	263	10	Bitburg	1394	215	0.25
Ulm	1142	263	1	Crailsheim	1394	215	0.25
Goeppingen	1142	263	0.25	Garmisch	1502	199	0.25
Bremerhaven*	1142	263	5	Giessen	1502	199	0.25
Hof	1142	263	0.25	Hohenfels	1502	199	0.25
Hersfeld	1142	263	0.25	Rothwesten	1502	199	0.25
				Wildflecken	1502	199	0.25

FM: Berlin 87.85MHz 1.5kW, Frankfurt 98.7MHz 60kW, Stuttgart 102.4MHz 100kW, Augsburg 100.4MHz 15kW, Heidelberg 100.4MHz 0.375kW, Illesheim 101.0MHz 0.375kW, Pirmasens 101.75MHz 0.375kW, Maastricht, Holland 93.4MHz 75W, Brunssum, Holland 89.15MHz 75W, Soesterberg Holland 93.1MHz 20W.
*Studio installations — †Key station.
D.Prgr: 24h — **N:** Every h on the h (5 min)+major newscasts (30 min) at 06.00, 17.00, 21.00 — **Hymns from Home:** Mon-Fri 06.05 — **Request Shows:** 06.10, 06.30, 07.30, 11.30, 12.15, 16.05, 17.05 — **Local N:** 17.25. **Rel:** Sun 09.30 (Catholic), 09.05 (Protestant).

ANN: "This is AFN, The American Forces Network, Europe" announced at least every h — **INT-SIG:** Every h on the h. AFN announces the time and the sixth and final pip is exactly an the h as announced — **V.** by QSL-card. Recordings not desired and will not be returned — **PUB:** Prgr. sched. (weekly) not available to individuals. The American Forces Network operates solely to provide American Forces in Europe with information and entertainment.

BRITISH FORCES BROADC. SCE. COLOGNE

is operated by Ministry of Defence to provide a sce. of inf. entertainment as well as a link with home for H.M. Force in Germany. It is non-comm, does not accept adv.

ADDR: BFBS Cologne, 5 Köln-Marienburg, Parkstr. 61. **Te:** 384001 Cologne Civil. **Telex:** 8881329.
L.P: St. Contr: J. P. Parsons. Eng. in-Charge: J. W. Bull, SPO; J. V. Russell.

FM-st's	**MHz**	**kW**	**FM-st's**	**MHz**	**kW**
Langenberg	96.5	50	Herford	95.4	6
Nordhelle	96.5	15	Berlin	98.75	1
Verden	97.6	50	Drachenberg	93.0	80
Bonn	99.8	2			

English: 05.30 (Sun 07.00)-22.30 (Sat 24.00, Sun 23.00). **N. (from BBC):** 07.00, 08.00, 12.00, 17.00, 21.00 (Sat 23.00). N. summaries on the half h hourly — **ANN:** "This is the British Forces Broadc Sce. Germany" or "You are tuned to FBS in Germany" — **V.** by letter. Rp. — **PUB:** BFBS "Listen" weekly.

RADIO CAE (Canadian Army Europe)

ADDR: CFPO 5050, 476 Werl — **L.P:** St. Mgr: B. McMillan. Dir. Prgr: T. Wood. Dir. Tec: Sgt. R. L. Lachapelle.
STATION: 87.8MHz 0.25kW.
D.PRGR'S in English and French: Mon-Fri 05.30-24.00, Sat/Sun 06.00-24.00. **N.** (relay CBC): 07.00, 11.00, 12.00, 14.00, 16.40, 17.50, 21.30 — **ANN:** "This is the Canadian Forces Radio Sce, Radio CAE in Werl" — **V.** by letter.

RADIO FORCES FRANCAISES DE BERLIN (FFB)

Relay st. for entertainment of French Forces in Berlin.
ADDR: Kurt-Schumacher-Damm, Quarter Napoléon, Berlin-Reinickendorf — **FM:** 93.6Mc 3kW — **HOME SCE:** Continuously exc. 08.00-09.00 and Thurs 23.00-04.00 — **Rel:** RTF Programmes: **N:** 07.00, 12.00.

RADIO FREE EUROPE (Private, non-comm.)

ADDR: R. Free Europe, Division of Free Europe, Inc. 2 Park Avenue, New York 16, N.Y, U.S.A. **Cable:** Natfecom, N.Y. **Te:** LExington 2-8900 — R. Free Europe Hqs, 1 Englischer Garten, München 22, Germany. **Cable:** Raduropa. **Te:** 21021 — Raret (Portugal relay base), Sociedade Anonima de R. Retransmissão, Av. Padre Manuel da Nobrega 8-B, Lisbon. **Cable:** Raretsa. **Te:** 721131 — **L.P:** Free Europe, Inc. (New York): Pres: William P. Durkee. RFE Hqs. (Munich): Dir: R. E. Walter. Dir. of Eng: P. W. Esten. New York Office: Dir: Ch. B. Kaufmann. Dir. Eng: W. H. Moffat. Portugal Office: Man. Dir: H. N. Black.
STATIONS: Medium Wave:
Holzkirchen 719kHz 417.2m 150kW.
Short Wave: 9 sw-tr's in Biblis, Germany (10/20/50kW, 4 sw-tr's Holzkirchen, Germany, 18 sw-tr's near Lisbon, Portugal (10/25/50/100/250/500kW). (**G.C:** Biblis: 08.30E/49.41N; Holzkirchen: 11.44E/47.52N; Lisbon: 08.40W/39.30N.)
D.PRGR: H=Holzkirchen; B=Biblis; L=Lisbon.
General bearings for the various services are as follows:

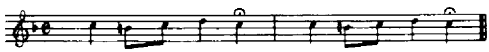
Target Area	**Transmtr.St's**			**Target Area**	**Transmtr.St's**		
	B	**H**	**L**		**B**	**H**	**L**
Poland	63°	50°	47°	Hungary	106°	110°	59°
Czechoslo-vakia	98°	66°	52°	Rumania	106°	110°	63°
				Bulgaria	108°	118°	69°

kHz	**m**	**kHz**	**m**	**kHz**	**m**	**kHz**	**m**
3960	75.75	7165	41.87	11725	25.59	15255	19.66
3970	75.57	7190	41.72	11815	25.39	15355	19.54
3995	75.09	7200	41.67	11825	25.37	17725	16.93
5970	50.25	7245	41.41	11885	25.31	17735	16.92
5985	50.12	7255	41.35	11895	25.22	17770	16.88
6105	49.14	9505	31.56	11905	25.20	17805	16.85
6115	49.06	9565	31.36	15115	19.85	17835	16.82
6135	48.90	9595	31.27	15145	19.81	17865	16.80
6170	48.62	9695	30.95	15170	19.78	21665	13.84
7115	42.16	9705	30.91	15215	19.71	21720	13.81
7145	41.99	9725	30.85			21745	13.80

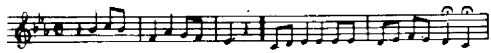
Most RFE freq's are registered for use both in Germany and in Portugal and the selection of tr. location is a function of propagation conditions throughout the year.

Schedule: Nov. '69-February '70:
Bulgarian: 03.57-06.00 and 15.57-21.30. Freq's used at variable times: 6135, 6170, 7200, 7245, 9505, 9565, 11895, 15115, 17725, 21745kHz.
Czech/Slovak: 03.57-22.55. Freq's used at variable times: 719, 3995, 5970, 6105, 6135, 7165, 7200, 7245, 9565, 9695, 9725, 11725, 11885, 15115, 15255, 17725, 21665 and 21720kHz.
Hungarian: 03.54-22.05 on 3970, 5985, 7115, 9595, 11815, 15170, 17770kHz at variable times.

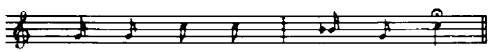
Polish: 03.55-22.00 on 3960, 5970, 6105, 7145, 7190, 7215, 9705, 9725, 11895, 15145, 15215, 15355, 17735, 17805, 17835, 17865kHz at variable times.
Rumanian: 04.00-06.00 and 15.00-23.05 on 6115, 7225, 9695, 11825, 15215 and 17735kHz at variable times.
N. every h on the h (for all Sces').
Frequencies change throughout the year as propagation conditions vary.
ANN: Sign on and sign off: **Bulgarian:** "Took E Radio Svobodna Evropa" ("This is Radio Free Europe"). **Czechoslovak:** "Hlási se vám ceskoslovenská stanice rozhlasu Svobodná Evropa" ("This is the Czechoslovak station of Radio Free Europe calling"). **Hungarian:** "Itt a Szabad Európa Radió" ("This is Radio Free Europe"). **Polish:** "Mówi rozglosnia Polska Radia Wolna Europa" ("This is the Polish station of Radio Free Europe"). **Rumanian:** "Aici e Radio Europa Libera" ("Here is Radio Free Europe").
INT-SIG: Bulgarian: Part of Bulgarian National Anthem (Celeste):



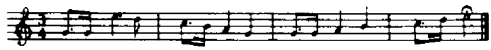
Czech/Slovak: Czech and Slovak National Anthem (Celeste):



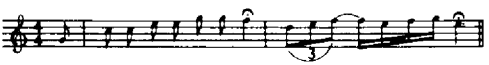
Hungarian: Old Hungarian folksong:



Polish: Polish patriotic song: "Hail Glorious Dawn of May" (brass instruments):



Rumanian: Folk Motif (Orch and Flute):



V. by QSL-card. Recordings accepted.
FI: By American contribution through the Radio Free Europe Fund.

RADIO LIBERTY (Private, non-comm.)
ADDR: Arebellastrasse 18, 8 Munich 81. **Cable:** Radi-LibComm. **Te:** 44631 — **L.P:** Exec. Dir. Headquarters, Munich: Walter K. Scott. Pres. Radio Liberty Committee Inc, New York: Howland H. Sargeant.
STATIONS: Lampertheim (Germany): 50/20kW (8 sw-tr's); Playa de Pals (Spain): 500/250/100kW (5 sw-tr's); Pa-Li (Taiwan): 50kW (4 sw-tr's).
G.C: Lampertheim: 98.33E/49.30N — Playa de Pals: 03.10E/42.00N — Pa-Li: 121.27E/25.05N.
Frequencies for period November-February:

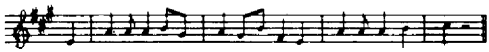
kHz	m	kHz	m	kHz	m	kHz	m
3990	75.19	9555	31.40	11970	25.06	15445	19.42
5955	50.37	9660	31.06	15125	19.83	17720	16.93
6170	48.62	9680	30.99	15130	19.83	17750	16.90
7155	41.93	9750	30.77	15225	19.70	17760	16.89
7180	41.78	11725	25.59	15290	19.62	17780	16.87
7220	41.55	11770	25.49	15340	19.56	17845	16.81
7295	41.12	11870	25.27	15370	19.52	17875	16.78
9520	31.51	11935	25.14	15380	25.14	17895	16.76

All of R. Liberty's tr's with the exception of those to East Germany are directed to the USSR. Bearings are as follows:

Target Area	Lampertheim	Playa de Pals	Taiwan
USSR	53°	41°	22°
	77°	52°	338.5°
	93°	63°	

D.PRGR: 00.00-24.00.
Target area: E. Germany 75, 49, 31, 25m.b. — No.+So. Russia, Biclorussia, Ukraine 49, 41, 31, 25, 19, 16m.b. Tatar ASSR, Bashkir ASSR, Caucasus, Sovjet Central Asia 49, 41, 31, 25, 19m.b. — Soviet Far East 16, 19, 25m.b. — **N:** Every h.

ANN: Azerbaijani: "Danyshyr Asadlyk Radiosu". Armenian: "Chosume 'Azatutiun' Radiokayane". Belorussian: "Gavaryts Radyio Svoboda". Georgian: "Laparakobs Radiosadrugi Thavisuphleba". No. Caucasian: "Govorit Radiostantsia Svoboda". Russian: "Govorit Radiostantsia Svoboda". Tatar-Bashkir: "Monda Azatlyk Radiostansyese Suyili". Turkestani: "Asatlyk Radiosydan Gapiramiz". Ukrainian: "Hovorit Radio Svoboda".
INT-SIG: Hymn to Freedom, by Gretchanioff:
V. by QSL-card.



R. Liberty speaks to the people of the U.S.S.R. as free voice of their fellow countrymen abroad. R. Liberty is supported by the R. Liberty Committee, Inc. which derives its funds from private persons and organizations in the U.S.A. — **F.PL:** 1000kW sw-tr under construction at Playa de Pals.

VOICE OF AMERICA RADIO STATION IN MUNICH
ADDR: Voice of America, Washington D.C. 20547, USA.
Long Wave: 173kHz 1734m 500kW: 20.00-22.00 Russian.
Medium Wave: Munich A 1196kHz 251m 300kW: 03.00-07.30, 16.00-23.45 (Sun 24.00).
Short Wave: Munich (G.C: 1145E/48.15N) 100kW: 03.00-07.45, 12.00-23.45 (Sun 24.00).

kHz	m	kHz	m	kHz	m	kHz	m
3980	75.38	6050	49.59	7270	41.27	11815	25.39
5955	50.39	6060	49.50	7285	41.18	17705	16.94
5965	50.29	6150	48.78	9660	31.06	21560	13.91
6040	49.67	6160	48.70	9760	30.74		

D.PRGR: Medium Wave: 03.00-04.00 Russian, 04.00-04.15 Slovene, 04.15-04.30 Hungarian, 04.30-04.45 Czech, 04.45-05.15 Polish, 05.15-05.30 Hungarian, 05.30-05.45 Czech, 05.45-06.00 Slovak, 06.00-07.30 **English;** 16.00-16.30 **English,** 16.30-17.00 Czech, 17.00-17.30 Polish, 17.30-19.00 Hungarian, 19.00-20.00 Polish, 20.00-21.00 Czech, 21.00-22.00 **English,** 22.00-22.30 French, 22.30-23.45 (Sun 24.00) **English.**
Short Wave: See USA.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given. Station identification is in English: "You are listening to the Voice of America in Washington relayed through transmitters in Munich".
INT-SIG: Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs.
V. by QSL-card. Reports required. No. Rp.

GERMANY

German Democratic Republic

L.T: GMT+1h — **Pr.L:** German.

STAATLICHES KOMITEE FUR RUNDFUNK
beim Ministerrat der DDR (Gov.)
ADDR: 116 Berlin, Nalepastrasse 18-50. **Te:** 632831. **Cable:** Funkkomitee — **L.P:** Dir. Gen: R. Grimmer. Vice Dir. Gen: K. Ehrich, Dr. W. Sydow. Dir. Adm: H. Ebel. Dir. Tech: Dipl. Ing. A. Schulz. Dir Foreign Rel: M. Müller. Intendant: K. Goldstein (Deutschlandsender), R. Schmidt (Radio DDR), H. Classen (Berliner Rundfunk), C. Kirschnek (Radio Berlin International).

HOME SERVICE
DEUTSCHLANDSENDER: D.Prgr: D 03.00-02.45

Location:	kHz	m	kW
Berlin (Königswusterhausen)	185	1621.6	200/1000
Burg	782	383.6	250
Schwerin (Wöbbelin)	728	412.1	250
Suhl (Wachenbrunn)	692	433.8	250
Berlin	6115	49.06	5
Berlin	7185	41.75	5

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Sonneberg	24	94.2	1	Inselsberg	34	97.15	10
Schwerin	27	95.25	10	Brocken	35	97.4	10
Leipzig	32	96.6	10	Berlin-Köpenick	35	97.65	3
Marlow	32	96.65		Dresden 1	34	97.25	
Dequede	33	96.9	1				
Karl Marx-Stadt	34	97.05	1				

Sat 03.00-03.00; Sun 03.00-23.20 (all freq's). Mon-Fri 03.00-23.15 (exc. 08.00-11.00) on 728/782/6115/7185kHz+97.65MHz; Mon-Fri 23.15-03.30, Sun 23.20-03.00 night prgr. on 728/782MHz+97.65MHz.

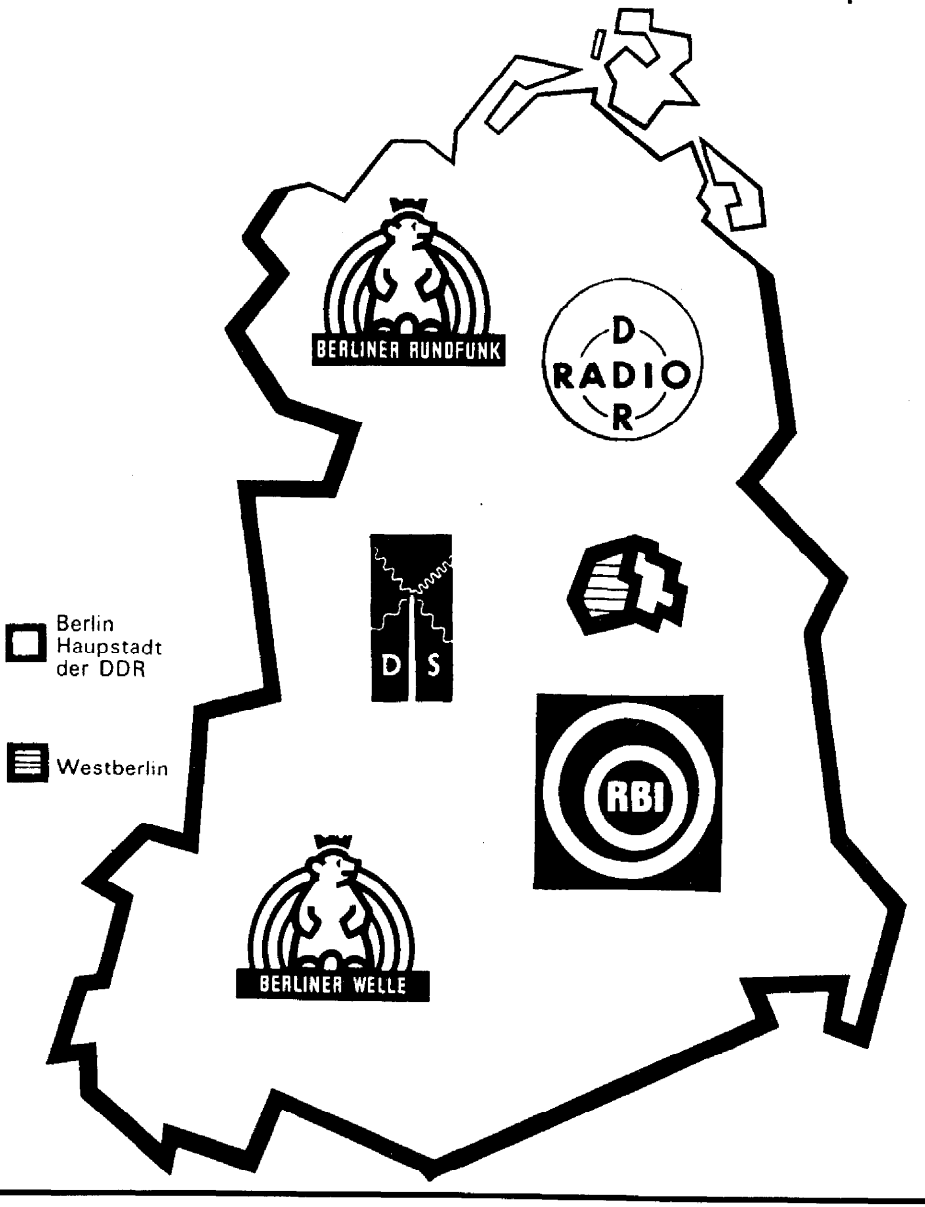
Deutscher Demokratischer Rundfunk

116 Berlin
Nalepastrasse 18-50

TELEFON: 632831

TELEX: 011276-278

Deutsche Demokratische Republik



N, Wrp: 00.00, 02.00, 03.05 (W), 03.30 (W), 04.00 (W), 04.30 (W), 05.00 (W), 05.30 (W), 06.00 (W), 07.00, 09.00 (W), 11.00, 12.00 (W), 14.00, 16.00, 17.00, 18.00 (W), 20.30 (W), 22.00.
Comm: 18.10 (W), 17.00 (Sun); repeat: 23.10 — **Actualities:** 09.10, 10.00, 14.05, 16.00, 17.00, 18.15, 20.40. **Press Review:** 07.05, 12.10 — **Folklore:** Sun 07.20, Mon. Wed 10.30, Tues 20.00, Thurs 15.30, Fri 10.25 — **Maritime** Wrp. (on 185kc only): 02.45, 04.05 (all freq's), 09.50, 16.50, 23.20.

RADIO DDR 1. 24h of information and entertainment.

Stations:	kHz	m	kW	Stations:	kHz	m	kW
Schwerin	529	567.1	220	Berlin	881	340.5	100
Greifswald	557	538.6	5	Dresden	1043	287.6	220
Leipzig	575	521.7	120	Suhl	1052	285.1	20
Erfurt	629	476.9	20	Seelow	1546	194	5
Cottbus	746	402.1	20	Bernburg	1570	191.1	20

FM:	ch	MHz	FM:	ch	MHz
Inselsberg	3	87.85	Dequede	8	89.4
Marlow	4	88.25	Berlin	29	95.8
Leipzig	5	88.45	Helpterberg	30	95.95
Brocken	6	88.95	Dresden	28	95.4
Schwerin	7	89.2			

D.PRGR: 03.00-23.10 on all freq's; 23.00-03.00 on 557/575/1043kHz and all FM st's.
N. and Wrp: W 04.00-22.00 every h on the h. D. 00.30, 01.30, W 03.05, 03.30, 05.30, 06.30, Sun 03.05, 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 20.00, 21.00 — **Actualities and Comm.** (also on R. DDR II): 09.10 (W), 18.10 (D), 21.10 (W) — **Rlg. Sce:** Sun 06.30 — **Prgr. Preview:** 14.05 (W).

RADIO DDR II: D 09.00-23.10.

FM Stations	ch	MHz	kW	FM Stations	ch	MHz	kW
Reinsberg	12	90.5	10	Leipzig	23	93.85	10
Marlow	14	91.05	10	Brocken	25	94.6	1
Dresden	17	92.25		Dequede	26	94.9	
Inselsberg	18	92.55	1	Berlin			
Schwerin	19	92.75	10	(Köpenick)	27	95.05	
Karl-Marx-				Löbau	37	98.2	
Stadt	19	92.85	10	Cottbus	39	98.6	

D.PRGR: N, Wrp: 09.00 (W), 11.00, 12.00 (Mon-Fri), 13.00 (W), 14.00 (Sun), 15.00 (Sat), 16.30 (Sun), 17.00 (W), 18.00 (Sun), 21.00 — **Actualities:** 17.10 (W), 18.10 (Sun), 21.20 (W). **Rel. R. DDR I:** Mon and Wed 22.10 (Sun and Thurs 23.00)-23.10; Tues, Fri, Sat 22.00-23.10.

BERLINER RUNDFUNK: D.Prgr: 03.00-02.00.

Stations:	kHz	m	kW	Stations:	kHz	m	kW
Karl-Marx-				Potsdam	656	457.3	20
Stadt	602	498	20	Reichenbach	917	328.9	20
Berlin-				Plauen	1079	278.1	20
Köpenick	611	491	500				

FM Stations:	ch	MHz	FM Stations:	ch	MHz
Karl-Marx-Stadt	10	89.8	Brocken	15	91.55
Dresden	10	90.1	Sonneberg	16	91.7
Inselsberg	11	90.2	Marlow	22	93.5
Leipzig	11	90.4	Schwerin	38	98.55
Berlin	15	91.4	Dequede	40	98.9

03.00-23.00 on all freq's: 23.00-02.45 on 611kHz only. Mon 07.30-11.00 on 656kHz/91.4MHz; Wed 07.30-11.00 not on 656kHz — **N. Wrp**: W 03.05, 03.30, 04.00, 04.30, 05.30, 06.30, 07.30, 09.30, 11.30, 14.30, 18.30, 20.30, 22.30, Sun: 04.30, 05.30, 06.30, 07.30, 09.30, 12.30, 14.30, 18.30, 20.30, 22.30 — **Comm:** 12.00 (Sun), 16.35. 20.40 (W) — **Actualities:** 16.30, 20.30 (W), 17.00 (Sun).

BERLINER WELLE
Station: Berlin-Köpenick 1358kHz 220.9m 50kW ch42 99.7MHz 10kW.
D.Prgr: Sun 03.00-23.00, 23.00-02.45 on 99.7MHz only; Mon-Fri 03.00-11.00, 14.30-23.00; Tues-Fri 23.00-02.45 on 99.7MHz only; 03.00-23.00, 23.00-02.45 on 99.7MHz only; Mon 07.05-11.00 on 99.7MHz. Sun 03.00-06.00, 12.30-14.00 and Mon-Fri 03.00-03.40 and Sat 03.00-04.00 as Berliner Rundfunk.
N, Wrp: W. 03.05, 03.30, 04.00, 04.30, 05.00, 05.30, 06.00, 06.30, 07.00, 08.00, 14.30, 15.30 (not Sat), 16.00, 17.00, 18.00, 20.00, 21.00 (Sat only), 22.00; Sun 04.30, 05.30, 06.30, 07.30 12.30, 16.00, 18.00, 20.00, 21.00, 22.00. — **Comm:** 18.10 (Sun), 18.12 (W) — **Actualities:** 16.05 (Sun), 17.00 (W) — **Stereophonic exp. Prgr's:** 14.05-15.30 (Sun), 17.30-18.00 (Tues, Thurs), 20.10-21.00 (Fri), 11.50-12.30 (Sat — monthly).

RADIO BERLIN INTERNATIONAL
Tr's at Nauen and Königswusterhausen.

kHz	m	kW	kHz	m	kW	kHz	m	kW
1511	198.5	50	9600	31.25	100	15390	19.49	100
5955	50.38	100	*9730	30.83	50	15450	19.42	100
6050	49.59	100	11700	25.64	100	17755	16.90	100
6080	49.34	50/100	11810	25.40	100	17830	16.83	100
6100	49.18	100	11820	25.38	100	17880	16.78	100
6115	49.06	5	11900	25.21	100	21465	13.98	100
7185	41.75	5	15145	19.81	100	21475	13.97	50
7300	41.10	5	15240	19.69	50	21540	13.93	100
9500	31.58	100	15285	19.63	50	21600	13.89	50

*) Leipzig.
EUROPEAN SERVICE: On 6080/6115/7185/7300/9730kHz:
English: 17.30-18.00, 20.15-20.45, 22.00-22.30. 23.00-23.30 (exc. 7300kHz)—**DX-Prgr:** Tues 17.30, 20.15, 22.00.
French: 18.30-19.00 (exc. 7300, 9730kHz), 21.00-21.30, 23.45-00.15 (exc. 7300kHz).
Danish: 18.00-18.30, 19.15-19.45 (exc. 7300, 9730kHz).
Italian: 16.30-17.00, 21.30-22.00.
Swedish: 17.00-17.30, 19.45-20.15 (exc. 9730kHz).
DX-Prgr: Tues 17.00, 19.45 — **Spanish:** 22.30-23.00.
German: 15.15-16.00 on 6080, 6115, 9730Hz; 19.00-19.15 (exc. 7300, 9730kHz), 20.45-21.00, 23.30-23.45 (exc. 7300kHz). **DX-Prgr:** Tues 15.15.

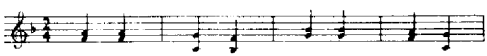
OVERSEAS SERVICE
I=Near East; II=No. We. Africa; III=Ce. Africa; IV=We. Africa; V=Ea. Africa; VI=So. Asia; VII=No. America (East); VIII=No. America (West); IX=Latin America.

Arabic	Area	kHz	French	Area	kHz
05.15-06.15	I	9730,		V	15145
		15240,	17.30-18.15	III	15390
		17755,		V	15145
		17830	19.15-20.00	IV	11810
10.00-14.00	I	9730,	20.45-21.30	IV	11810
		15285,		II	6050
		17755	**German**		
13.00-14.00	II	15450	00.45-01.30	IX	6100,
19.15-20.15	I	11700			9600,
		11900			9500
21.30-22.30	II	6050	01.45-02.30	VIII	5955,
English					9730
03.45-04.30	III	11820	04.15-05.00	VIII	5955,
06.15-07.00	IV	9500			6080,
06.45-07.30	VI	21465			9730
11.15-12.00a	VI	17880,	12.45-13.30	VI	21540
		21540	14.00-14.45	I	9730,
12.00-12.45	VI	17880			15285,
		21540			17755
12.15-13.00	III	21600		II	15450
	IV	21475	17.00-17.45	I	11700
13.15-14.00	III	21600	**Portuguese**		
	IV	21475	23.15-24.00	IX	6100,
13.30-14.15	VI	21540			9500,
14.30-15.15a	VI	17880			9600
15.15-16.00	VI	17880	01.30-02.15	IX	9500,
18.15-19.00	III	15390			9600
	V	15145	**Spanish**		
20.00-20.45	IV	11810	00.00-00.45	IX	6100,
01.00-01.45	VII	5955,			9500,
		9730			9600
02.30-03.15	VII	5955,	02.15-03.00	IX	9500,
		9730			9600
03.30-04.15	VIII	5955,	**Swahili**		
		6080,	16.00-17.30	III	15390
		9730		V	15145
a) Mon/Tues/Fri.			**Hindi**		
French			11.40-12.00b	VI	17880
04.30-05.15	III	11820			21540
05.30-06.15	IV	9500	14.55-15.15b	VI	21540
11.30-12.15	III	21600	**Indonesian**		
	IV	21475	11.15-11.40b	VI	17880
14.00-14.45	III	21600			21540
	IV	21475	14.30-14.55b	VI	21540
15.15-16.00	III	15390	b) Wed, Thurs, Sat, Sun.		

DX-PROGRAMMES: In English: Tues 12.00(VI), 12.15 (II), 13.15(IV), 13.30(VI), 14.30(VI), 15.15(VI), 16.45 (III/V), 17.30 (Europe), 20.00(IV) 20.15(Europe), 22.00 (Europe); Wed 01.00(VII), 02.30(VII), 03.30(VIII), 03.45 (III), 06.15(IV), 06.45(VI), 11.15(VI). **In German: Tues** 12.45(VI), 14.00(I/II), Wed 00.45(IX), 01.45(VII), 04.15 (VIII). **In Swedish: Tues** 17.00, 19.45. **In Italian: Tues** 16.30, 21.30.

ANN: E: "This is R. Berlin International the Voice of the German Democratic Republic". F: "Ici Berlin International la Voix de la Republique Démocratique Allemande" (Africa Sce: "Ici R. Berlin International, la Voix de la République Démocratique Allemande").

Swedish: "Här är R. Berlin International, Tyska Demokratiske Republikens sänding på svenska". Danish: "De lytter til R. Berlin International, Den Tyske Demokratiske Republik sender på dansk". I: "Qui R. Berlino Internationale, la voce della Repubblica Democratic Tedesca". P: "R. Berlin Internacional, a voz da República Democrática Alemana". Sp: "Habla R. Berlin Internacional, la Voz de la República Democrática Alemana".
INT-SIG: Theme from GDR National Anthem.



V. by QSL-card — **PUB:** "Funk und Fernsehen (weekly) free on request.

BROADCASTS OF THE SOVIET COMMITTEE FOR CULTURAL RELATIONS
with fellow country-men in the German Democratic Republic. **ADDR:** Vertretung des Sowjetischen Komitees für kulturelle Beziehungen mit Landsleuten im Ausland, Behrenstr. 64/65, Berlin W. 8, Postal Addr: 108, Berlin 8. **Te:** 221480 — Further details see USSR.

RADIO VOLGA (for Soviet Armed Forces in Germany)
ADDR: Menzelstrasse 5, 15 Potsdam.
STATION: Burg 263kHz 1141m 200kW.
D.PRGR: 05.00-22.30 (Sat 23.00) — **Own Prgr:** Mon-Fri 13.00-14.00, 18.00-19.00; Sat 15.00-16.00, 22.30-23.00; Sun 08.05-10.45. Other times relay Radio Moscow.
ANN: "Govorit Volga".

GIBRALTAR (British Colony)

L.T: GMT+1h — **Pr.L:** English, Spanish — **EC:** a/c 50 (yes).

RADIO GIBRALTAR (Gov. Comm.)
ADDR: Wellington Front, Gibraltar. **Cable:** Broadcasts. **Te:** 2519 — **L.P:** Chmn. Gibraltar Broadc. Corpo: F. L. Galliano. Man. Agents: Gibraltar Broadc. Ltd. Chmn: Lord Thomson. Man. Dir: J. M. Coltart. Gen. Mgr: H. J. Ramagge. Chief Eng: T. G. Black.
STATION: Wellington Front 1484kHz 202.2m 1kW.
HOME SCE: English, Spanish: 06.55-23.00. **N: English:** 07.00, 11.00 (exc. Sat), 12.30*, 20.00, 20.15*. **Spanish:** 13.00*, 13.15, 21.30*, 21.35. **Wrp:** W 08.25, 13.30, Sun 08.30 — *) Local N, other times relay BBC.
ANN: "This is Gibraltar" — **V.** by letter. Re. in English or Spanish. Recorded rep. acc. — **PUB:** Prgr. schedule free on request — **FI:** By Gov. and adv. **AD:** 4 times daily — **ALF:** £0-10-0.

BRITISH FORCES BROADC. SCE. GIBRALTAR
is operated by the Ministry of Defence to provide a sce. of inf, entertainment as well as a link with home for H.M. Forces stationed in Gibraltar. It is non-comm, does not accept adv.
ADDR: B.F.B.S, Wellington Front, Gibraltar — **L.P:** St. Contr: K. J. P. Doherty. Prgr: Org: D. A. Durbridge. Eng. in Charge: A. S. Challoner.
STATION: 93.5MHz — **D.PRGR:** Mon-Fri 05.45-08.30, 11.00-13.00, 15.00-22.10; Sat 10.00-22.10; Sun 09.00-22.10. **N:** Mon-Fri 06.00, 07.00, 12.00, 16.00, 18.00, 22.00, Sat/Sun 12.00, 16.00, 18.00, 22.00 — **ANN:** "This is the British Forces Broadc. Sce. Gibraltar" — **V.** by QSL-card. Rp.

GREAT BRITAIN

L.T: GMT+1h — **Pr.L:** English — **EC:** a/c 50 (yes).

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RADIO 4 (Home Service): W 05.30-22.45 (approx); Sun 06.50-22.45 (approx).

		kHz	m	kW
Cromer	Northern	692	434	2
Moorside Edge	—	692	434	150
Whitehaven	—	692	434	1.3
Barrow	—	1484	202	2
Westerglen	Scottish	809	371	100
Burghead	—	—	—	100
Redmoss	—	—	—	5
Dumfries	—	—	—	2
Washford	Welsh	881	341	100
Penmon	—	—	—	10
Towyn	—	—	—	5
Wrexham	—	—	—	2
Brookmans Park	London	908	330	140
Ramsgate	—	1484	202	2
Start Point	West	1052	285	100
Barnstaple	—	—	—	2
Clevedon	—	1457	206	20
Barltey	—	—	—	10
Brighton	—	—	—	2
Folkestone	—	—	—	1
Bexhill	—	—	—	2
Redruth	—	—	—	2
Droitwich	Midland	1088	276	150
Postwick	—	—	—	7.5
Lisnagarvey	N. Ireland	1340	224	100
Londonderry	—	—	—	0.25
Stagshaw	North-East	1151	261	100
Scarborough	—	—	—	2
Whitehaven	—	—	—	0.7

N: 05.30 (W), 06.00 (W), 07.00, 08.00, 12.00, 17.00, 21.00, 22.00 (exc. Sat), 22.43 (Sat).
Wrp: 05.55 (W), 06.55, 07.55 (Sun), 07.59 (Sat), 11.55, 16.55, 20.58, 21.59 (exc. Sat), 22.42 (Sat).
Greenwich T.S: 06.00 (W), 07.00, 08.00, 10.00 (Tues-Fri), 12.00, 17.00, 22.00 (exc. Sat) — **Big Ben:** 21.00.
SIG-TUNE: Mon-Sat at 05.25: Symphony No. 2 (William Boyce). Sun at 06.45: Church Bells.

RADIO 3:
647kHz: Daventry (150kW), Edinburgh, Glasgow, Newcastle, Redmoss (2kW) — **1546kHz:** Belfast, Exeter, Stockton (0.25kW); Brighton, Fareham, Leeds, Liverpool, Preston, Plymouth, Redruth, Swansea (1kW) — **1594kHz:** Bournemouth, Dundee (0.25kW). Music Prgr: Mon-Fri 06.00-17.30; Sat 07.00-11.30; Sun 07.00-16.00. Study Session: Mon-Fri 17.30-18.30; Sport Sce: Sat 11.30-17.00. Third Prgr: Mon-Fri 18.30-22.25; Sat 17.00-22.15; Sun 16.00-22.15. **N:** 06.00 (Mon-Fri), 07.00, 08.00, 12.00 (Mon-Fri), 22.00. **Wrp:** 06.03 (Mon-Fri), 07.03, 08.03, 11.30 (Sat), 12.03 (Mon-Fri). **Greenwich T.S:** 06.00 (Mon-Fri), 07.00 (Sat/Sun).

RADIO 2 (Light Prgr): W 04.30-01.00; Sun 05.55-01.00.

	kHz	m	kW		kHz	m	kW
Droitwich	200	1500	400	Glasgow	1484	202.2	2
Dundee	1484	202.2	2	Redmoss	1484	202.2	2
Edinburgh	1484	202.2	2				

N: W: 04.30, 05.00, 05.30 and every half h until 18.30, 21.30, 22.30, 23.00, 24.00, 01.00. Sun: 06.00, 06.30, 07.30, 08.30, 09.30, 10.30, 11.30, 13.30, 15.30, 17.30 18.30, 21.30, 22.30, 23.00, 24.00, 01.00.

Wrp: W 04.32, 05.02, 05.31, 06.00, 06.31, 07.00, 07.31, 08.31 (Sat only), 16.31, 17.05 (Mon-Fri), 18.44, 23.04, 01.01. Sun 06.02, 06.31, 07.00, 07.31, 08.31, 17.31, 18.34, 23.04, 01.01 — **Greenwich T.S:** 06.00, 09.00, 11.00, 13.00, 18.30 — **Big Ben:** 04.30 (W) — **Shipping Forecast:** (200kHz only): 05.40, 10.55 (Sun), 12.55 (W), 16.57, 01.02.
SIG-TUNE: Mon-Sat: "Theme One" (George Martin). Sun: Bells, as for World Service.

RADIO 1 (Popular Music Prgr): W 04.30-01.00; Sun 05.35-01.00.

	kHz	m	kW		kHz	m	kW
Brighton	1214	247	1	Moorside Edge	1214	247	35
Brookmans Park	,,	,,	35	Newcastle	,,	,,	2
Burghead	,,	,,	20	Plymouth	,,	,,	0.5
Droitwich	,,	,,	30	Postwick	,,	,,	1
Fareham	,,	,,	1	Redmoss	,,	,,	2
Hull	,,	,,	0.15	Redruth	,,	,,	2
Lisnagarvey	,,	,,	10	Washford	,,	,,	60
Londonderry	,,	,,	0.5	Westerglen	,,	,,	25
				Bournemth.	1484	202	0.5

N, Wrp: Times as for Radio 2.
SIG-TUNE: As for Radio 2.

FM:	MHz				kW/W
Stations	**R. 2**	**R. 3**	**R. 3**		**(ERP)**
Ashkirk	89.1	91.3	93.5	a)	18kW*
Ballachulish	88.1	90.3	92.5	a)	15W*
Ballycastle	89.0	91.2	93.4	b)	40W*
Barnstaple	88.5	90.7	92.9	c)	150W*
Bath	88.8	91.0	93.2	c)	35W*
Belmont	88.8	90.9	93.1	d)	8kW*
Betws-y-Coed	88.2	90.4	92.6	e)	10W
Blaen-plyf	88.7	90.9	93.1	e)	60kW
Brecon	88.9	91.1	93.3	e)	10W*
Bressay	88.3	90.5	92.7	a)	10kW*
Brighton	90.1	92.3†	94.5	c)	150W*
Brougher Mountain	88.9	91.1	93.3	b)	2.5kW
Cambridge	88.9	91.1	93.3	f)	20W*
Campbeltown	88.2	90.4	92.6	a)	35W*
Carmarthen	88.5	90.7	92.9	e)	10W*
Churchdown Hill	89.0	91.2	93.4	f)	25W*
Divis	90.1	92.3	94.5	b)	60kW
Dolgellau	90.1	92.3	94.5	e)	15W
Douglas	88.4	90.6	92.8	d)	6kW*
Ffestimiog	88.1	90.3	92.5	e)	50W*
Forfar	88.3	90.5	92.7	a)	10kW*
Fort William	89.3	91.5	93.7	a)	1.5kW
Grantown	89.8	92.0	94.2	a)	350W*
Haverfordwest	89.3	91.5	93.7	e)	10kW*
Hereford	89.7	91.9	94.1	f)	25W*
Holme Moss	89.3	91.5†	93.7	d)	120kW
Kendall	88.7	90.9†	93.1	d)	25W*
Kilkeel	88.8	91.0	93.2	b)	25W*
Kingussie	89.1	91.3	93.5	a)	35W*
Kinlochleven	89.7	91.9	94.1	a)	2W
Kirk o'Shotts	89.9	92.1	94.3	a)	120kW
Larne	89.1	91.3	93.5	b)	15W*
Les Platons	91.1	94.75	97.1	c)	1.5kW
Llanddonna	89.6	91.8	94.0	e)	12kW*
Llandrindod Wells	89.1	91.3	93.5	e)	1.5kW
Llangollen	88.85	91.05	93.25	e)	10kW*
Llanidloes	88.1	90.3	92.5	e)	5W
Lochgilphead	88.3	90.5	92.7	a)	10W*
Londonderry	88.3	90.55	92.7	b)	13kW*
Machynlleth	89.4	91.6	93.8	e)	60W*
Maddybenny More	88.7	90.9	93.1	b)	30W*
Meldrum	88.7	90.9	93.1	a)	60kW
Melvaig	89.1	91.3	93.5	a)	22kW*
Morecambe Bay	90.0	92.2†	94.4	d)	4kW*
Newry	88.6	90.8	93.0	b)	30W*
Northampton	88.9	91.1†	93.3	f)	60W*
North Hessary Tor	88.1	90.3	92.5	c)	60kW
Oban	88.9	91.1	93.3	a)	1.5kW
Okehampton	88.7	90.9	93.1	c)	15W*
Orkney	89.3	91.5	93.7	a)	20kW*
Oxford	89.5	91.7†	93.9	f)	22kW*
			95.85	c)	
Penifiler	89.5	91.7	93.9	a)	6W*
Perth	89.3	91.5	93.7	a)	15W*
Peterborough	90.1	92.3	94.5	f)	20kW*
Pitlochry	89.2	91.4	93.6	a)	200W*
Pontop Pike	88.5	90.7	92.9	h)	60kW
Redruth	89.7	91.9	94.1	c)	9kW*
Rosemarkie	89.6	91.8	94.0	a)	12kW*
Rowridge	88.5	90.7	92.9	c)	60kW
Sandale	88.1	90.3	94.7	h)	120kW
			92.5	a)	
Scarborough	89.9	92.1†	94.3	d)	25W*
Sheffield	89.9	92.1†	94.3	d)	60W

FM:	MHz				kW/W
Stations	**R. 2**	**R. 3**	**R. 3**		**(ERP)**
Isles of Scilly	88.8	91.0	93.2	c)	20W*
Skriaig	88.5	90.7	92.9	a)	10kW*
Sutton Coldfield	88.3	90.5†	92.7	f)	120kW
Swingate	90.0	92.4†	94.4	g)	7kW*
Tacolneston	89.7	91.9	94.1	f)	120kW
Thrumster	90.1	92.3	94.5	a)	10kW*
Toward	88.5	90.7	92.9	a)	250W
Ventnor	89.4	91.6	93.8	c)	10W*
Weardale	89.7	91.9	94.1	h)	100W*
Wensleydale	88.3	90.5	92.7	d)	25W*
Wenvoe	89.95	96.8	94.3	e)	120kW
			92.13	c)	
Whitby	89.6	91.8	94.0	d)	40W
Wrotham	89.1	91.3†	93.5	g)	120kW

Version of Home Sce's: a) Scottish; b) No. Ireland; c) South and West; d) North; e) Welsh; f) Midland; g) London; h) North-East; *) Directional aerial; †) Carries stereophonic tr's at times.

LOCAL RADIO	MHz	kW/W
BBC Radio Brighton	88.1	75W
BBC Radio Durham	96.8	2.6kW*
BBC Radio Leeds	94.6	140W
BBC Radio Leicester	95.05	140W
BBC Radio Merseyside	95.85	2.5kW*
BBC Radio Nottingham	94.8	140W
BBC Radio Sheffield	88.6	30W
	95.05	10W*
BBC Radio Stoke-on-Trent	94.9	2.5kW*

Most st's are on the air at 04.30-01.02 and broadcast local N. and local prgr's; they also select prgr's from Radio 1, 2 and 4 for rebroadcasts.

EXTERNAL SERVICES

41 sw-tr's: 75/100/250kW.
G.C: Woofferton 02.43W/52.19N. Daventry 01.08W/52.15N. Rampisham 02.38W/50.48N. Skelton 02.54W/54.44N.

kHz	m	kHz	m	kHz	m	kHz	m
3952	75.09	9510	31.55	11865	25.28	17780	16.87
3975	75.47	9525	31.50	11880	25.25	17790	16.84
5965	50.28	9530	31.48	11890	25.23	17800	16.85
5975	50.21	9555	31.40	11905	25.20	17810	16.84
5990	50.08	9570	31.35	11910	25.19	17820	16.84
6010	49.92	9580	31.32	11915	25.18	17855	16.80
6050	49.59	9600	31.25	11925	25.16	17860	16.80
6065	49.46	9625	31.17	11930	25.15	17870	16.79
6075	49.38	9635	31.14	11945	25.12	17880	16.78
6080	49.34	9640	31.12	11955	25.09	17885	16.78
6090	49.26	9650	31.09	11970	25.06	17890	16.77
6095	49.22	9660	31.06	12040	24.92	18080	16.59
6110	49.10	9670	31.02	12095	24.80	21455	13.98
6120	49.02	9675	31.01	15070	19.91	21470	13.97
6125	49.98	9690	30.96	15105	19.86	21490	13.96
6140	48.86	9700	30.93	15140	19.82	21510	13.95
6150	48.78	9705	30.91	15180	19.76	21530	13.93
6160	48.70	9710	30.90	15195	19.74	21550	13.92
6170	48.62	9715	30.88	15200	19.74	21590	13.90
6180	48.54	9725	30.85	15205	19.73	21595	13.89
6195	48.43	9735	30.82	15210	19.72	21600	13.89
7105	42.22	9740	30.80	15230	19.70	21610	13.88
7110	42.19	9750	30.77	15235	19.69	21615	13.88
7120	42.13	9760	30.74	15245	19.68	21630	13.87
7130	42.08	9765	30.72	15260	19.66	21640	13.86
7140	42.02	9770	30.71	15285	19.63	21660	13.85
7150	41.96	9825	30.53	15290	19.62	21670	13.84
7155	41.92	9915	30.26	15300	19.61	21680	13.84
7170	41.84	11680	25.68	15310	19.60	21690	13.83
7185	41.75	11705	25.63	15350	19.54	21710	13.82
7200	41.67	11710	25.62	15375	19.51	21740	13.80
7210	41.61	11720	25.60	15390	19.49	25650	11.70
7230	41.49	11750	25.53	15410	19.47	25670	11.66
7235	41.47	11760	25.51	15420	19.46	25710	11.66
7250	41.38	11770	25.49	15435	19.44	25750	11.65
7260	41.32	11780	25.47	17695	16.95	25840	11.61
7270	41.27	11800	25.42	17705	16.94	25850	11.60
7280	41.21	11820	25.38	17715	16.93	25920	11.57
7320	40.98	11830	25.36	17740	16.91	26040	11.52
7325	40.96	11840	25.34	17745	16.91	26080	11.50
9410	31.88	11860	25.30	17770	16.88		

The above freq's are shared between the European and Overseas Services and in addition the followings freq's are used as follows:

Long & Medium Waves: European Services 200/647/809/1295kHz, Arabic Service: 638/719/1178kHz, Persian Service: 719kHz, World Service: 638/719/1421kHz, German Sce: 809/1295kHz+902MHz.

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The columns below show the m.b's (or frequencies) which the BBC expects to use during the months from November to February. Details of wavelengths can be obtained from the programme journals, and are always announced at the microphone.

EUROPEAN SERVICES

Bulgarian	**m.b.**
04.45-05.00	75,49,41,25,19
11.30-11.45	19,16,13
14.00-14.15	19,16,13
16.45-17.30	31,25,19
18.45-19.00a	49,41
21.30-22.00	49,41,31
Czech	
05.15-05.30	464,232,75,49, 41,31,25
06.15-06.30	75,49,41,31,25
13.45-14.00b	31,25,19
14.00-14.30	31,25,19
14.30-14.45Sun	31,25,19
18.45-19.00	75,49,41,31
21.45-22.00	75,49,41
Slovak	
11.15-11.30	31,25,19,16
16.00-16.15	31,25,19
20.45-21.15	232,49,41,31

English: See World Sce.

English by Radio	**kHz**
05.30-05.45	647,6140,7120, 9765,11945
06.45-07.00	809,1295,3952, 6140,6150, 6195,7120, 7230,9765, 9825,11945, 15140
12.30-13.00	809,6075,9580, 9750,11770, 11945,15180, 15390,17740, 21530
English by Radio	**kHz**
17.45-18.00	809,1295,3952, 6195,7120, 7185,9600, 9770
18.30-18.45	6050*,7230*, 6125,7185, 9600,9770
22.45-23.00	647
Finnish	
15.30-16.00(Sun)	31,25
15.45-16.00c	31,25
16.00-16.45	31,25
18.00-18.15	49,41
French	
05.30-05.45	232
06.30-06.45	464,232,75, 49,41,31,19
07.15-07.30	232,75,49,41
11.15-12.30	371,31,25,19
18.00-19.00	232,49,41,31
21.30-21.45	232,75,49,41
German (also on FM: 90.2MHz)	
04.15-05.00	464,371,232, 75,49,41,31
05.15-05.45	371,75,49,41, 31
05.45-06.00	371,75,49,41, 31
11.45-12.00	371,31,25,19
12.00-12.15d	371,31,25,19
16.30-17.00	371,75,49,41, 31
19.00-21.00	371,464,75, 49,41,31
22.45-23.00	371,75,49,41
Greek	**m.b.**
05.45-06.00	75,49,41,31
11.45-12.00	19,16,13
15.45-16.00e	25,19,16
19.00-19.30	41,31,25
22.45-23.00	75,49,41
Hungarian	
05.30-05.45	75,49,41,31
06.30-06.45	75,49,41,31
10.00-10.30(Sun)	25,19
12.15-12.30	31,25,19
13.45-14.00f	31,25,19
15.15-15.30	31,25,19
19.00-19.45	75,49,41,31
22.00-22.45	464,75,49,41
Italian	**kHz**
10.15-10.30g	15390,17695, 21640
15.30-15.45h	11770,15390, 17695
21.00-21.30	1295,3952, 6195,7230
Polish	**m.b.**
04.00-04.15	464,232,75, 49,41,31
06.00-06.15	75,49,41,31
13.15-13.30	31,25,19
13.30-13.45(Sun)	31,25,19
15.00-15.15h	31,25,19
15.45-16.00h	31,25,19
18.00-18.45	75,49,41,31,25
20.15-20.45	232,49,41,31
21.15-21.45	75,49,41
Portuguese	**kHz**
12.30-12.45	11780,15435
22.00-22.30	5975,7185, 9770
Rumanian	**m.b.**
04.00-04.15	75,49,41,31
11.15-11.30	19,16,13
16.00-16.45	31,25,19
18.45-19.00f	49,41
19.30-20.00	49,41,31
21.00-21.30	49,41,31
Russian	
03.45-04.00	1500,464,49, 41,31,25,19
05.00-05.15	75,49,41,31, 25,19
10.45-11.00	31,25,19,16,13
13.30-13.45	31,25,19,16,13
14.45-16.00k	31,25,19,16,13
16.45-17.00d	49,41,31,25,19
17.00-18.00	49,41,31,25,19
20.00-21.00	49,41,31,25
Slovene	
11.00-11.15	19,16,13
15.30-16.00(Sun)	31,25,19
18.00-18.30	49,41
Spanish	**kHz**
07.30-07.45l	7210,9750
13.15-13.30	11780,15435
21.15-22.00	5975,7185
Turkish	**m.b.**
05.15-05.30	75,49,41,31
15.45-16.00a	25,19,16
18.15-19.00	41,31,25
Yugoslav	
10.45-11.00a	19,16,13
14.15-14.30	25,19,16
17.30-18.15	31,25,19
21.45-22.15	464,75,49,41

a) English by Radio: Tues/Thurs/Sat — b) English by Radio: Tues/Thurs/Sat/Sun — c) English by Radio: Mon/Wed/Thurs/Sat — d) English by Radio — e) English by Radio: Sun/Mon/Wed/Fri — f) English by Radio: Mon/Wed/Fri — g) English by Radio: Sun — h) English by Radio: Weekdays — i) English by Radio: Wed/Sat — h) English by Radio: Mon/Thurs — k) 14.45-15.30 daily, 15.30-15.45 weekdays, 15.45-16.00 Tues and Fri only — l) English by Radio: Mon/Wed/Thurs/Fri.

BBC WORLD SERVICE

TO EUROPE

To Ce. Europe, Finland and Western USSR

kHz
09.00-18.30 15070
04.00-07.30 12095
09.00-20.15 12095
03.00-07.30 9410
17.00-22.00 9410
18.00-22.45 7120
03.00-05.45 6180
16.15-22.45 6180

To Greater Berlin

18.00-18.30	90.2MHz
21.15-22.45	(VHF)

To West Europe (including Scandinavia)

09.00-16.15	15070
05.00-07.30	12095
09.00-20.15	12095
05.00-07.30	11750
17.00-20.15	11750
04.00-07.30	9580
04.00-07.30	9410
16.15-21.15	9410
04.00-07.30	7185
22.00-00.30	7130
18.00-23.15	7120
04.00-05.45	6180
16.15-00.30	6180

Additional transmissions for Europe

04.00-04.30	200,6050,7105, 7260,9750,9915

kHz
05.45-06.00 647,1295
06.00-06.30 647,809,1295, 3952,6140, 6195,6150, 7120,7230, 9825,11945
07.00-07.15 809,1295,3952, 6140,6150, 6195,7120, 7230,9765, 9825,11945, 15140
10.30-10.45 9750,11780, 11945,15195, 15235,15435, 17790,17800, 21455
13.00-13.30 809,9580,9750, 11770,15390, 17740,17790, 21530
17.00-17.45 809,1295,3952, 6195,7120, 7185,9600, 9770
21.00-21.15 809,6010,6125, 7185,7230(C), 9770,9825
23.00-23.30 809,1295,3952, 5975,6195, 7185,7260

TO OVERSEAS COUNTRIES

C=East Mediterranean Relay; T=Far Eastern Station; A=Atlantic Relay (250kW); E=BBC Eastern Relay.

To Australasia (incl.-N.Z.)

	kHz
09.00-11.30	25710 21550
20.00-22.45	15260(A)
07.00-12.30	15070
05.45-09.15	11955
20.00-22.45	11750
09.00-14.00	11750(T)
05.45-09.15	9640
20.00-22.00	9410
05.45-09.15	7150
20.00-22.45	7120
05.45-09.15	6110

To Far East and North West Pacific

09.00-13.30	21660(C)
00.00-00.30	17880(T)
09.00-13.30	17880(T)
00.00-00.15	15435(T)
13.00-13.30	15435(T)
23.00-23.15	15435(T)
09.00-09.45	15310(T)
09.00-12.15	15070
00.00-00.15	11955(T)
09.00-09.45	11955(T)
23.00-23.15	11955(T)
00.00-00.30	11815(T)
09.00-14.00	11750(T)
23.00-23.15	9725(T)

To Asia (So. & So. East) and USSR (Ea. & Ce.)

09.00-13.45	25710
09.00-13.30	21660(C)
09.00-16.15	21550
09.00-13.30	17880(T)
00.00-00.15	15435(T)
13.00-13.30	15435(T)
23.00-23.15	15435(T)
09.00-09.45	15310(T)
09.00-18.30	15070
04.00-07.30	12095
09.00-21.15	12095
00.00-00.15	11955(T)
01.45-03.30	11955(C)
09.00-09.45	11955(T)
17.00-18.15	11955(T)
23.00-23.15	11955(T)
00.00-00.30	11815(T)
09.00-18.15	11750(T)
13.45-18.15	9740(T)
00.00-00.15	9725(T)
09.00-09.45	9725(T)
11.00-11.15	9725(T)

	kHz
13.45-18.15	9725(T)
23.00-23.15	9725(T)
01.45-03.30	9625(C)
16.15-22.00	9580(T)
00.00-00.30	9570(T) 9410
03.00-07.30	9410
16.15-22.00	9410
23.00-23.15	9410
00.00-00.30	7325
23.00-23.15	7325
09.00-09.45	7235
11.00-11.15	7235(T)
01.45-03.30	7230
13.00-18.15	7120(T)
23.00-23.15	7120(T)
02.00-05.30	6180
00.00-00.30	6150
23.00-23.15	6150
23.00-23.15	6080(T)
01.45-03.30	6010(C)
23.00-23.15	3915(T)

To So. Asia

01.45-03.30	1410 700
05.30-12.30	700
13.00-14.30	1410
17.00-18.15	1410

To Middle East/Ea. Africa (and So. Ea. Europe)

09.00-16.15	25650
09.00-13.30	21660(C)
06.00-18.30	21470
05.00-07.30	17885(C)
09.00-17.15	17885(C)
06.00-07.30	17790
09.00-17.45	17705
04.00-07.30	15420(C)
10.30-14.30	15420(C)
16.30-18.00	15420(C)
18.30-21.15	15420(C)
04.00-07.30	11750
09.00-17.45	11750
03.00-07.30	11720(C)
05.45-07.30	11720(C)

	kHz
03.00-04.15	9690(C)
03.00-03.45	9650(C)
05.45-07.30	9650(C)
01.45-03.15	9625(C)
03.00-07.30	9410
16.15-22.00	9410
01.45-03.30	7230
01.45-02.15	7140(C)
03.00-03.15	7140(C)
05.45-07.30	7140(C)
18.00-23.15	7120
02.00-05.45	6180
16.15-00.30	6180
03.00-04.15	6120(C)
05.45-07.30	6120(C)
18.00-21.15	6110(C)
01.45-03.30	6010(C)
01.45-04.00	3952

To Middle East

03.00-08.15	1421(C)
09.00-23.15	1421(C)
17.00-21.15	1410(E)
03.00-03.15	719(C)
05.45-07.30	719(C)
03.00-03.45	638(C)
05.45-07.30	638(C)
21.15-23.15	638(C)

To Central and South Africa

17.00-17.45	25670
09.00-16.15	25650
07.30-09.15	21710
10.30-18.30	21710
05.00-07.30	17885(C)
09.00-17.45	17885(C)
07.00-09.15	17810
17.00-18.15	17740(A)
09.00-17.45	17705
04.00-07.30	15420(C)
10.30-14.30	15420(C)
16.30-18.00	15420(C)
18.30-21.15	15420(C)
17.00-21.15	15400(A)
20.00-22.45	15260(A)
07.00-09.15	15235(A)
16.30-18.30	15105(A)
06.00-21.15	15070
04.00-07.30	11750
17.00-21.15	11750
17.00-17.45	9915
05.00-05.15	9600(A)
06.00-06.30	9600(A)
07.00-09.15	9600
04.00-07.30	9580
20.00-21.15	9580(A)
17.00-22.00	9410
04.00-07.30	7185
18.00-22.45	7120

To West/North West Africa & So. We. Europe

10.30-16.15	25650
07.30-09.15	21710
10.30-18.30	21710
07.00-09.15	17810
20.15-20.30	17740

	kHz
07.30-08.00	17715
09.00-17.45	17705
20.00-00.30	15260(A)
07.00-09.15	15235(A)
07.30-09.15	15105(A)
16.30-18.30	15105(A)
06.00-21.15	15070
05.00-05.15	11925
06.00-06.30	11925
06.30-09.15	11860(A)
16.30-21.30	11820(A)
04.00-07.30	11750
17.00-21.15	11750
05.00-05.15	9600(A)
06.00-06.30	9600(A)
07.00-09.15	9600(A)
04.00-07.30	9580
20.00-21.15	9580(A)
05.00-05.15	9510
06.00-06.30	9510
17.00-22.00	9410
06.30-07.00	7210
04.00-07.30	7185
22.00-00.30	7130
18.00-23.15	7120
05.00-05.15	7105(A)
06.00-06.30	7105(A)
07.00-07.15	7105(A)
16.15-00.30	6180
05.00-09.15	6110
05.00-06.15	6010(A) 5975
06.30-07.00	5975

To South America (South of Amazon, excl. Peru)

17.45-21.15	15400(A)
20.00-04.15	15260(A)
21.15-04.15	11750
22.00-04.15	9600
22.00-03.30	9510(A)

To West Indies, Central America, South America (North of Amazon incl. Peru)

10.30-13.15	21740
22.00-04.15	15260(A)
20.00-22.45	15200
10.30-13.15	15070
21.15-21.30	11945
20.00-03.30	11750
21.15-03.30	9580
22.00-03.30	9510(A)
23.00-04.15	6110

To Canada/USA/Mexico

21.15-00.30	11780
21.15-03.30	9580
22.00-03.30	9510(A)
21.15-04.15	6110

To Pacific Islands

22.00-04.15	15260(A)
22.00-04.15	9600

To Atlantic Islands/ Antarctica

22.00-04.15	9600(A)
22.00-04.15	7130

Additional World Service transmissions to Africa:
Freq's in bold=Atlantic Relay; C=East Mediterranean; L=Ce. Mediterranean Relay; T=Far Eastern Station.

Times	kHz
06.30-07.00	5975,7240, 9710,**11860, 15235**
07.30-08.00	**9600,11860, 15105,15235,** 17715,21710
08.15-09.00	**9600,11860, 15105,15235**
16.30-17.00(Sun)	**11820, 15105,** 15420(C)
16.30-16.45 (Mon-Fri)	**11820,15105,** 15420(C)
17.00-17.45	9915,**11820, 15105,** 15420(C), **17740,** 25670
20.15-20.30	**9580,11820,** 11945,15140, 17740,21710
20.30-21.15	**9580,11820**
21.15-21.30 (Mon-Fri)	**11820**

N: 00.00, 02.00, 03.00, 04.00, 05.00, 06.00, 06.28, 07.00, 09.00, 10.30 (dictation, Europe only), 11.00, 13.00, 13.45 (Mon-Fri), 14.00 (Sat), 14.45 (Sat), 16.00, 17.00, 18.00, 19.00 (Mon-Fri), 20.00, 21.00 (Europe only), 22.00, 23.00. **Commentary:** 02.09, 04.09, 07.09, 11.09, 13.09 (Europe), 14.09 (Sat only), 16.09, 20.09, 21.09 (Europe), 23.09.

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N. about Britain: 00.09, 03.09, 07.20, 13.09, 18.09 — **R. Newsreel:** 00.15, 06.15, 08.00, 12.00 (W), 15.00 (exc. Sat), 18.15 — **From the Editorials:** 01.50 (exc. Sun), 03.50, 05.09, 07.15, 09.15 — **The World Today:** Mon-Fri 22.09 and repeated next day 03.15, 05.45, 08.15, 13.15 — **Letters from the World:** Tues 11.30, 16.15, 23.15 — **Letterbox:** Fri 15.45, Sat 23.45, Sun 05.45, 20.15. — **Greenwich T.S:** 00.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 14.15, 15.00, 16.00, 17.00, 18.00, 20.00, 22.00, 23.00 — **World Radio Club:** Sun 08.15, Thurs 12.45, Fri 23.45.
News of the African World (Africa): 05.15(W), 06.30, 07.30, 17.25, 20.27. **Listeners' Choice:** Sat 05.20, 23.15, Sun 08.30, 11.30, Wed 20.15, Fri 06.30, 15.15.
The BBC World Service is also re-broadcast by the Far Eastern, East Mediterranean, Middle East and Atlantic relays (see the resp. stations).
GREENWICH T.S. is usually broadcast at the start of prgr's on the h — **Big Ben** is usually broadcast at the start of prgrs at 15.30 and 45 min's past each hour.
INT-SIG: World Sce. for Europe: Morse Signal "V" (V for Victory) played on Timpani (i.e. . . . -).

World Service: Bells.
World Sce. for Africa and other services: 3 notes (BBC in tonic scale).

OTHER OVERSEAS SERVICES

Freq's in bold types=Atlantic Relay; C=East Mediterranean Relay; L=Central Mediterranean Relay; T=Far Eastern Station; E=Eastern Relay Station.

TABLE OF SHORTWAVE STATIONS to the Summer-Supplement 1970

In order to make this as complete and up-to-date as possible we direct an earnest appeal to **all radio stations using short-wave** to send us regularly their transmission- and/or programme-schedules.

ARABIC SCE:
To Middle East

	kHz
03.45-05.45	638/719(C), 1546(L), 6120(C), 7140(C), 9650(C), 9825, 11720(C), 12040, 17715
13.00-16.15	638/719(C), 1546(L), 6120(C), 7140(C), 9650(C), 11720(C), 17715,21630, 25670
16.15-16.30	638(C), 1546(L), 6120(C), 9650(C), 9825, 11720(C), 17715,21630,
16.30-17.00	638(C), 1546(L), 6120(C), 9650(C), 9825, 11720(C), 17715,21630
17.00-17.45	1546(L) 6120(C), 7140(C), 9650(C), 9825, 11720(C),
17.45-19.15	638/719(C), 1546(L), 6120(C), 7140(C),

ARABIC SCE:
To Middle East

	kHz
17.45-19.15	7260, 9825, 11720(C),
19.15-21.00	638/719(C) 1546(L), 6120(C), 7140(C), 7260, 9825, 11720(C),

To North Africa

	m.b.
04.45-05.45	49,41
13.00-16.30	19,16
16.30-21.00	49,31

ENGLISH

To Mauritius kHz

10.00-10.15* 17790,21630, 25670
*) Mon fortnightly.

North American Service

15.00-15.30 21610
15.30-15.45 15260,21610
17.00-17.30a 21610
a) 17.00-17.15 daily; 17.15-17.30 Mon-Fri.

Caribbean Service

21.15-21.30 (Mon-Fri) 9580,11945, 15200

Falkland Isl. Service

22.15-22.45(Sun)9600,11945

ENGLISH BY RADIO
(Far Eastern Station)

Times	kHz
23.30-23.45	3915*,6080*, 7120*,9725*, 11955*
00.30-00.45	9570*,9725, 11850,11955, 15435,17880
09.45-10.00	7235*,9725*, 11955,15310
13.00-13.15	11955
16.45-17.00	11955

*) for Indonesia.

MALTESE	m.b.
16.50-16.55	41,25

FRENCH	m.b.
04.30-04.45	49,41,31,25
05.15-05.45	49,41,31

a) to So. America (South); b) to Atlantic Isl; c) to So. America (North) & Ce. America; d) to Mexico & Ce. America.

EAST AFRICAN SCE.

Somali	m.b.
14.30-15.00	25,19,16,13
18.00-18.15	31,25,19
18.15-18.30	19
Hindi	
14.30-15.15	19,13
Swahili	
03.30-03.45	49,41,31,25
09.45-10.00	19,16,13
10.00-10.15	19
15.45-16.15	19,16,13
Urdu	
15.15-15.30	19,13

ASIAN SCE.

Bengali	m.b.
01.30-01.45(W)	49,41,31
01.30-02.00(Sun)	31,25
09.30-10.00*	16,13,11
16.15-16.45*	31,25,99
Burmese	
23.30-23.45	49,41,31,25
00.15-00.30	31,25,19
13.45-14.15	31,25,19,16, 13,11
Chinese	
22.15-22.45	75,49,41,31, 25,19
10.00-10.30	41,31,25,19, 16,13,11
12.00-13.00	41,31,25,19, 16,13,11

FRENCH	m.b.
06.30-07.00	41,31,25,19
12.00-12.30	16,19,13
18.30-19.30	31,25,19,16,13
21.15-21.30	31,25
21.30-21.45	31,25,19
HAUSA	
05.45-06.00	49,41,31,25
13.45-14.15	16,19,13
19.30-19.45	31,25,19,16,13
19.45-20.00	31,19

LATIN AMERICAN SCE.

Portuguese	m.b.
22.00-00.15	31,25,19
Spanish	
00.15-03.15a	31,25,19
00.15-03.15b	41,31,25
01.15-03.15c	49,31,25,19
01.15-03.15d	49,31,25,19
03.15-04.15c	49,31,25,19
03.15-04.15d	49,31,25,19

Hindi	m.b.
01.00-01.20	428,49,41,31, 25
14.30-15.15	31,25,19,16,13
16.00-16.15	213,31,25,19, 16,13
Indonesian	
23.15-23.30	75,49,41,31,25
10.30-11.00	41,31,25,19, 16,13,11
Japanese	
22.00-22.15	41,31,25,19
11.00-11.30	25,19,16,13,11
Malay	
13.00-13.15	19,16,13,11
Persian	
03.15-03.45	428,41,31,25
16.15-17.00	417,213,41,31
Sinhala	
09.30-10.00a	16,13,11
16.15-16.45a	31,25,19
Tamil	
09.30-10.00a	16,13,11
16.15-16.45b	31,25,19
Thai	
23.45-24.00	49,41,31,25
13.15-13.45	31,25,19,16, 13,11
Urdu	
15.15-16.00	31,25,19,16,13
Vietnamese	
22.45-23.00	75,49,41,31, 25,19
11.30-12.00	41,31,25,19 16,13,11

*) Mon/Wed/Sat; a) Tues/Fri; b) Sun/Thurs.

FI: The revenue for its Domestic Sce's is drawn from license fees paid by listeners and viewers; the revenue for its External Sce's is provided by a Grant-in-Aid from the Treasury — **ALF:** £1-5-0 (radio), £6-0-0 (radio and TV). Colour TV: £11-0-0.

For various relay st's: See Ascension Island, Malta, Cyprus, Muscat and Oman, Malaysia.

BRITISH FORCES BROADC. SCE. (Head Office)
Responsible for the operation and control of the sce. on behalf of the Ministry of Defence. Also produces some 35hrs. of recorded prgrs. a week for tr. by B.F.B.S. st's in Germany, Cyprus, Tobruk, Malta, Gibraltar and Singapore (see resp. countries).
ADDR: Kings Bldgs, Dean Stanley St, London S.W.1. **Te:** (01)828 5646 — **L.P:** Dir: B. W. Cave-Browne-Cave, OBE. Contr. Prgr's: I. J. Woolf. Chief Eng: P. I. K. Woodford.

MANX RADIO (Comm.)
Licensed by the GPO on behalf of the Isle of Man Gov — **ADDR:** Douglas Head, Douglas, Isle of Man. **Te:** 3277 — **L.P:** Chmn: J. W. W. Hyde. Gen. Mgr. & Chief Eng: R. Joyce.
STATIONS: 1295kHz 232m 1/0.2kW daylight) — 1594 kHz 188m 1/0.2kW (dawn-and-dusk)* — 89MHz — 91.2MHz.
D.Prgr's: 07.00-19.00. After 19.00 Rlg. prgr's on 89/91.2 MHz and 1594kHz only; closedown varies from 19.15 to 22.00 — *) also used from 10.00 for rlg. prgr's.
ANN: "This is Manx Radio on . . . mw, also broadc. in the VHF band on 89MHz and 91.2MHz from Douglas, Isle of Man".

UNIVERSITY RADIO YORK
ADDR: Dept. of Physics, University of York, Heslington, York YO1 5DD — **L.P:** Dir: R. W. Karunaratne. Tech. Dir: G. Waugh. Dir. of N. and Current Affairs: K. Pye. Dir. of Light Entertainment: G. Pullum.
STATION: 998kHz 301m 0.075kW.
D.PRGR: D 20.00-23.00.
This st. is completely student-operated. It is independent of the University authorities and is financed through the Students' Representative Council by means of an annual grant. Its range is restricted to the immediate environs of the University campus.

VOICE OF AMERICA RELAY STN. IN GT. BRITAIN
ADDR: Voice of America, Washington D.C. 20547, USA.
STATIONS: Woofferton 250kW: 02.00-07.30, 12.00-23.00.

kHz	m	kHz	m	kHz	m	kHz	m
5965	50.29	6125	48.98	7250	41.38	15195	19.74
6040	49.67	6150	48.78	7270	41.27	15205	19.73
6075	49.38	6160	48.70	9740	30.80	17855	16.80
6080	49.34	7170	41.84	11710	25.62	21510	13.94
6095	49.22	7200	41.67				

G.C: 02.43W/52.19N.
D.PRGR: See USA — **ANN:** "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station Identification is in English: "A broadcast of the Voice of America on facilities placed at their disposal by the British Broadcasting Corporation".
V. by QSL-card. Reports required. No. Rp.

GREECE

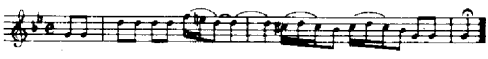
L.T: GMT+2h — **Pr.L:** Greek — **EC:** a/c 50 (variable).

NATIONAL HELLENIC BROADCASTING INSTITUTE (Ethnikon Idhryma Radiophonias, Gov. Legal Entity of Public Law)
ADDR: Mourouzi Str. 16, Athens 138. **Te:** 724811. **Studio:** Zappeion Bldg, Athens 118. **Te:** 230875. **Cable;** Radiostathens — **L.P:** Pres. of the Adm. Council: M. Stavropoulos. Dir. Gen: J. Anastassopoulos. Dir. Tec: V. Aslanides.

STATIONS:	kHz	m	kW		kHz	m	kW
Athens(Nat)	728	412.1	150	Thessa-loniki II	1043	287.6	5
Athens (2'Prgr)	1385	216.8	50	Corfu*	1007	298.0	50
Athens (3'Prgr)	665	451.2	15	Comotini	1403	213.8	5
Thessa-loniki I	791	379.2	50	Volos*	1484	202.2	1
Thessaloniki	7290	41.15	35	Rhodos*	1493	200.9	5
Thessaloniki	9710	30.90	35	Patras*	1511	198.5	0.2
				Chania*	1511	198.5	5
				Amalias*	1562	192.1	1.25

*) relay and reg. prgrs.
HOME SCE: Nat. Prgr: W 04.30-08.05, 10.25-13.30, 15.00-23.00; Sun 04.45-23.00 (exc. 13.30-15.00). **N:** W 05.00, 05.45,* 06.00, 07.00, 08.00, 11.00, 11.15,* 12.30, 16.00, 17.00, 17.30†, 18.30, 18.35,* 19.30, 22.00; Sun 05.15, 05.25*, 11.00, 12.15, 17.00, 17.30†, 20.00, 22.00. *) English, French and German †) Newsreel — **Wrp:** W 04.50, 05.58 (English), 06.08, 13.20, 17.58‡; Sun 04.50, 05.30 (English), 17.48‡ — ‡) in Greek/English/French. **Nat. Music:** D 18.00-18.30. **Rlg. (Orthodox):** Sun (approx.) 05.35-08.00.
2'Prgr: W 05.00-07.00, 08.00 (Sat 10.30)-13.15, 17.00-21.30; Sun 05.00-21.30 (Light and adv. prgr's mainly). **N. in English, French and German:** 20.00.
3'Prgr: D 17.00-22.00 (serious music only).
Special Night Prgr. on 1385kHz: 23.00-04.30 (daily): Various Greek and international music with N. in Greek (3 min's): 00.00, 01.00, 02.00, 03.00, 04.00.
Thessaloniki I: 791kHz: 04.30-06.30, 10.15-22.30; 7290kHz: 18.00-18.30; 9710kHz: 11.00-13.00. **N:** 04.55, 05.00, 11.00, 12.30 (W), 15.30 (W), 16.00, 22.00. **Calling Greeks in Europe:** D 20.00-20.30. **"Calling Greeks Overseas":** Sat 21.30-22.00.
Nat. & Reg: Approx. times of tr. as **Nat. Prgr.**
ANN (for all mw stations): "Ethnikon Idhryma Radiophonias" (NBI). Nat. Prgr: "Ethnikon Proghramma". E: "This is R. Athens; Here is the News." F: "Ici R. Athènes; Voiçi nos informations". G: "Über den Griechischen Rundfunk hören Sie Nachrichten". 2'Prgr: "Dhefteron Proghramma". 3'Prgr: "Triton Proghramma" — Reg. Prgrs: Name of Region served as follows:

"Radiophonikos Stathmos Macedonias" (for Thessaloniki), "R.S. Voriodhytikis Elladhos" (for Corfu), "R.S. Thrakis" (for Comitini), "R.S. Dhodhekanissou" (for Rhodos), "R.S. Kritis" (for Chania). St's Volos, Patras, Amalias are announced "R.S. Volou, Patron, Amaliadhos" individually.
Station-Sig: Used by all mw st's of NBI: "Tsopanakos imouna" (Once I was a shepherd boy), a folk song played on native flute and sheep bells.



INT-SIG: "Musical Box" played on vibraphone.
V. by QSL-card or letter, Rp. preferred. Rec. acc.
PUB: "Radioprogramma" (weekly in Greek) — **F.Pl:** 2 sw-tr's of 100kW and complete FM Network consisting of 19 tr's of 10kW and 18 tr's of 3kW — **FI:** By license payments and adv.

FOREIGN SERVICE
Athens — 7.5/5kW (G.C: 23.42E/38.02N);
Frequencies below are partly used at periods starting 1st Sunday of May, Sept, Nov and March. In case of frequency changes other than specified please try at any of the frequencies below:

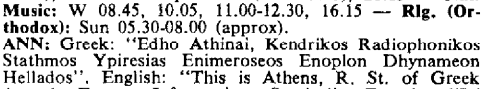
kHz	m	kHz	m	kHz	m	kHz	m
5960	50.34	7295	41.12	15345	19.55	21485	13.96
6075	49.38	9605	31.20	15425	19.44	25645	11.69
6175	48.58	11720	25.60	17745	16.90	25965	11.55
7140	42.01	11925	25.15	17780	16.87		

I=Cyprus; II=Egypt; III=Balkans; IV=No. We. Europe; V=to Shipping.

Times	Area	2/11-28/2 kHz	1/3-2/5 kHz	N(Greek)
07.00-08.15*	I	9605/11720	9605/11720	07.00
05.50-08.15†	I	9605/11720	9605/11720	
09.00-10.00‡	II	9605/11720	9605/11720	
10.30-13.00	I	9605/11720	9605/11720	11.00, 12.30
13.30-15.15	III	7295/9605	9605/11720	13.30
16.30-17.00	I	7295/9605	9605/11720	16.30
17.30-18.00	IV	11720/15425	15345/17745	17.30
18.30-19.00	I	7295/9605	9605/11720	18.30
19.30-21.00	IV	9605/11720	15345/17745	19.30
22.00-22.30	V	9605/11720	11720/15345	22.00
23.00-23.30	V	9605/11720	11720/15345	23.00

*) W only; †) Sun only; ‡) not Mon.
N. in English: 07.10 (W), 11.15, 13.45 (W), 17.35, 18.35, 19.45, 22.15, 23.12 (W) — **N. in French:** 07.15 (W), 11.20, 14.15 (W), 17.40, 18.40, 19.50, 22.20, 23.20 (W). **N. in German:** 07.20, 11.25, 14.20, 17.55, 18.55, 19.55, 22.25, 23.25. **Messages to Greek Workers in No. We. Europe:** D 20.30-20.45 — **Wrp:** Greek: 07.08 (W); English 07.09 (W), 13.44; French 07.14 (W), 13.49. **N. in other languages** (W): Turkish 14.00, Serbian 14.15, Albanian 14.30, Rumanian 14.40, Bulgarian 15.00.
ANN: Gr: "Ethnikon Idhryma Radiophonias, Edho Radiophonikos Stathmos Athinon Vracheon Kymaton".
INT-SIG: See Home Sce. — **V.** by QSL-card. Recorded reports preferred — **ALF:** US $6.00.

YPIRESIA ENIMEROSEOS ENOPLON DHYNAMEON HELLADOS (Greek Armed Forces Information Sce.)
ADDR: 136 Messogion St, Athinai. **Te:** 779119 — **L.P:** Dir. Gen: Brig. T. Apostolopoulos. Tech. Mgr: E. Tsamoussis.
STATIONS (Central St. Athens):
1142kHz 262.7m 20kW — 6045kHz 49.63m 5kW.
HOME SCE: 04.30-24.00 (Sat 01.00). **N:** W 04.45, 10.00, 12.30, 16.00, 18.00,* 19.00, 21.00, 23.00; Sun 05.00, 08.00, 12.00, 18.00,* 19.00, 21.00, 23.00 — *) Newsreel. **N. in English and French** (3 min's each): 12.45 (Sun 12.15), 21.15 — **Wrp:** 04.58 (Sun 05.13), 21.13 — **Nat. Music:** W 08.45, 10.05, 11.00-12.30, 16.15 — **Rlg. (Orthodox):** Sun 05.30-08.00 (approx).
ANN: Greek: "Edho Athinai, Kendrikos Radiophonikos Stathmos Ypiresias Enimeroseos Enoplon Dhynameon Hellados", English: "This is Athens, R. St. of Greek Armed Forces Information Service". French: "Ici Athènes, Station Radiophonique des Forces Armées Helleniques Service des Informations".
STATION-SIG: The main motif from the march "Greece never dies" played on trumpets.



V. by letter. Recordings accepted.

REGIONAL STATIONS:

Location	kHz	m	kW	Location	kHz	m	kW
Larissa	944	317.8	5	Thessaloniki	1178	254.7	10
Joannina	1061	282.8	1	Florina	1275	235.3	1
Orestias	1078	278.3	1	Kavalla	1335	224.7	1

D.PRGR: W 05.00-07.00 10.00-13.00, 15.00-21.00; Sun 05.00-13.00, 15.00-21.00 (times are approx) — **FI:** By adv. only — **F.PL:** Tripolis 1016kHz 295.3m — Heraklion 1169kHz 256.6m.

PYRGOS BROADCASTING STATION (Priv.)
ADDR: 16 Diakou Str, Pyrgos Ilias, Western Peloponnesus. **Te:** 550. **Cable:** "Radio Pyrgos" — **L.P:** Pres. of Adm. Council: G. Psarros. Dir. Tec: Sp. Mperatis.
STATION: 1484kHz 202.2m 0.4kW.
HOME SCE: 05.00-13.00, 17.00-22.00. **Night prgr:** 11.00-03.00.
ANN: Greek: "Edho Pyrgos radiofonikos stathmos, dhitikis Peloponnissou", E: "This is the P.B.S. in Western Peloponnesus, Hellas". G: "Hier ist Radio Pyrgos. Wir senden auf 1484kHz=202m. Sie hören unser Nacht Programme" — **V.** by letter.

VOICE OF AMERICA RADIO STATION AT RHODES
ADDR: Voice of America, Washington D.C. 20547, USA.
STATIONS: Medium Wave: Rhodes A 1259kHz 238m 150kW: 03.00-07.30, 14.00-23.00 (Sun 23.15).
03.00-04.00 **English,** 04.00-06.00 Arabic, 06.00-07.30 **English,** 14.00-16.30 **English,** 16.30-17.00 Turkish, 17.00-21.00 Arabic, 21.00-23.00 (Sun 23.15) **English.**

Short Waves: Rhodes (G.C: 28.10E/36.15N) 50kW: 03.00-07.30, 13.00-21.00, 22.00-22.30.

kHz	m	times	kHz	m	times
6015	49.88	04.00-06.00	7240	41.44	21.00-22.00
6075	49.38	21.00-22.00	7260	41.32	21.00-22.30
7110	42.19	04.00-06.00	11710	25.62	13.00-15.00
7205	41.64	16.00-21.00	15160	19.79	13.00-16.00

D.PRGR: See USA (Shortwave).
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station Identification (English): "You are listening to the Voice of America from Rhodes".
INT-SIG: Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs.
V. by QSL-card. Reports required. No Rp.

VOICE OF AMERICA RADIO STATION AT THESSALONIKI
ADDR: Voice of America, Washington D.C. 20547, USA.
STATIONS: Medium Wave: Thessaloniki-A 791kHz 379.2m 50kW: 04.30-06.30 (Sun 10.15), 10.15-22.30.

Short Wave: Thessaloniki 35kW (G.C: 22.57E/40.31N): 11.00-23.45 (Sun 24.00).

kHz	m	kHz	m	kHz	m	kHz	m
5995	50.04	9540	31.45	9710	30.90	11790	25.45
7205	41.64	9660	31.06	9715	30.88	11805	25.41
7290	41.15	9670	31.02	11760	25.57		

Medium Wave: 04.30-06.30 (daily), 06.30-10.15 (Sun), 10.15-17.00 (daily) Greek (NBI), 17.00-18.30 **English,** 18.30-19.30 Romanian, 19.30-20.00 Serbo Croat, 20.00-20.30 Greek (NBI), 20.30-21.00 Serbo Croat, 21.00-21.30 **English,** 21.30-22.30 Greek (NBI).
D.Prgr: Shortwave: See USA.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America from Thessaloniki".
INT-SIG: Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs.
V. by QSL-card. Reports required. No Rp.

HOLLAND

L.T: GMT+1h — **Pr.L:** Dutch — **EC:** a/c 50 (yes).

NEDERLANDSE OMROEP STICHTING (N.O.S.)
ADDR: P.O. Box 10, Hilversum. **Te:** 02150-81110 (TV)/11551 (Radio). **Telex:** 14132 (TV)/14470 (Radio)/13186. (Chmn, foreign and public rel.)
The Dutch prgr's are provided by the N.O.S. and six broadc. orgs:

1) Algemeene Vereeniging Radio Omroep (AVRO), 's-Gravelandseweg 52, Hilversum (neutral); 2) Katholieke Radio Omroep (KRO), Emmastraat 52, Hilversum (Catholic); 3) Nederlandse Christelijke Radio Omroep (NCRV), Schuttersweg 8, Hilversum; 4) Omroepvereniging VARA, Heuvellaan 33, Hilversum (socialist); 5) Televisie Radio Omroep Stichting (TROS), Sophialaan 1, Hilversum (neutral); 6) Vrijzinnig Protestantse Radio Omroep (VPRO), 's-Gravelandseweg 163, Hilversum (liberal-protestant). The advertising on radio and television is provided by the Stichting Etherreclame (STER), 's-Gravelandseweg 89, Hilversum.

BOARD OF THE N.O.S:
Chmn: E. A. Schüttenhelm. Vice-chmn: J. B. Broeksz. Prgr. Affairs Radio: Dr. W. J. A. Wagenaar. Prgr. Affairs TV: J. W. Rengelink. Techn. Affairs: Dr. A. H. van de Veen. Fin. Affairs: Dr. Ch. E. van der Ploeg. Personnel Affairs: K. de Wilde. Reg. Affairs: Dr. M. J. A. R. Dittrich.

STATIONS: The radio- and TV-studios are in Hilversum but the tr's (owned by the Omroep Zender Maatschappij, NOZEMA) are located in Lopik, near Utrecht.

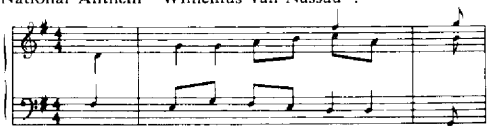
	kHz	m	kW		kHz	m	kW
Lopik I	746	402.1	120	Hengelo II*	1594	188.2	2.5
Lopik II	1007	297.9	120	Hoogezand II*	1594	188.2	2.5
Lopik III	1250	240.0	10	Hulsberg II*	1594	188.2	2.5

*) relay Lopik II (Hilversum II).

FM: (I=relay Lopik I, II=relay Lopik II, III=relay Lopik III).

	ch	MHz	kW		ch	MHz	kW
Goes I	3	87.85	12	Markelo III	38	98.4	50
Goes II	27	95.0	12	Roermond I	4	88.2	100
Goes III	43	99.80	12	Roermond II	13	90.9	100
Hulsberg I	17	92.1	4	Roermond III	25	94.5	100
Hulsberg II	28	95.3	4	Smilde I	16	91.75	50
Hulsberg III	39	98.75	4	Smilde II	26	94.8	50
Ijsselstein I	19	92.6	50	Hooge-zand III	35	97.45	15
Ijsselstein II	33	96.8	50	Irnsum III	5	88.6	15
Ijsselstein III	40	98.9	50	Wieringen I	2	87.7	10
Markelo I	15	91.4	50	Wieringen II	9	89.8	10
Markelo II	31	96.2	50	Wieringen III	17	92.2	10

D.PRGR: Hilversum I+II: 06.00 (Sun 07.00)-23.00; Hilversum III: D 08.00-17.00.
N: Hilversum I: 06.00 (W), 07.00, 10.00 (W), 12.00, 15.00 (W), 16.50 (Sun), 17.00 (W), 18.30, 21.30, 22.55 — Hilversum II: 06.00 (W), 06.30 (W), 07.00, 07.30 (W), 09.00 (Sun), 10.00 (W), 11.30 (W), 12.00 (Sun), 15.00 (W), 17.30 (W), 18.00 (Sun), 21.30, 22.55 — Hilversum III: Hourly 08.00-16.00 — **Agricultural Inf:** Hilversum I: 04.45 (W), 05.40, 11.26 (W), Hilversum II 04.40 (W), 10.26 (W) — **Rlg. Prgr's** Hilversum I: Sun 09.00 — Hilversum II: 08.00, 16.00.
ANN: "Hier is de AVRO", "Hier is de KRO", etc. **V.** by QSL folder. **INT-SIG:** Three first bars from the National Anthem "Wilhemus van Nassau".



REGIONALE OMROEP NOORD EN OOST (RONO)

ADDR: Prinsenhof, Martinikerhof 23, Groningen. **Te:** (050)32841.

Stations:	kHz	m	kW		ch	MHz	kW
Hengelo	1594	188.2	2.5	Irnsum	5	88.6	15
Hoogezand	1594	188.2	2.5	Hoogezand	35	97.45	15
				Markelo	38	98.4	50

D.Prgr: 17.00-19.00 in Dutch dialects; Tues and Fri Friesian Sce. 17.30-19.00 on 88.6MHz. **N:** 17.00 (W).

REGIONALE OMROEP ZUID (ROZ)

Addr: Van Hasseltkade 20, Maastricht. **Te:** 04400/15446. **Stations:** Hulsberg 1594kHz 188.2m 2.5kW — Hulsberg ch39 98.75MHz 4kW — Roermond ch25 94.5MHz 100kW. **D.Prgr:** 18.00-19.00 in Dutch dialects. **N:** 18.00 — **V.** by QSL-folder — **ALF:** Dfl. 24.00.

RADIO NEDERLAND WERELDOMROEP (non-com.)

ADDR: P.O. Box 222, Hilversum. Office: Witte Kruislaan 55, Hilversum. **Te:** 16151. **Telex:** 11336. **Cable:** Mundivox — **L.P:** Dir. Gen: L. F. Tijmstra. Dep. Dir. Gen: J. W. Acda. Dir's: Prgr. Sce: H. J. P. J. van Eijndhoven. N. Sce: J. Folkertsma. Centr. Prod. Sce: B. H. Steinkamp. Transcription Sce: J. van de Walle. Adm: G. R. de Vries. Dir. Tec: V. J. de Grijs. Dir. Training Centre: J. A. van der Steen.

STATIONS: Lopik WO1 50kW; WO2/3/4 100kW; WO5 10kW (G.C: 05.02E/52.01N) Bonaire Noord (Neth Antilles) 2×300kW (G.C: 68.19W/12.13N). Relay facility via T.W.R. Bonaire (Neth. Antilles) M.W. 500kW.

kHz	m	kW	kHz	m	kW	kHz	m	kW
6020	49.83	10/100	11730	25.58	100	15425	19.45	100
*6020	49.83	300	*11730	25.58	300	*17730	16.92	300
6085	49.30	100	11785	25.46	100	17810	16.84	100
6140	48.86	100	11910	25.19	100	*17810	16.84	300
7210	41.61	100	*11955	25.09	300	21480	13.97	100
9590	31.28	100	15180	19.76	100	21495	13.96	100
*9590	31.28	300	15220	19.71	100	21570	13.91	100
9715	30.88	100	*15220	19.71	300	*21570	13.91	300
*9715	30.88	300	*15320	19.58	300	*21630	13.87	300

*) Bonaire Noord.

OPERATION SCHEDULE: I=So. Africa/Europe; II=Middle East; III=North Africa (East); IV=North Africa (West); V=North America (East); VI=Greater Caribbean Area; VII=North America (West); VIII=Australia/New Zealand; IX=Southeast Asia; XI=West Australia/South-East Asia; X=Africa; XII=Latin America; XIII=So. America (South); XIV=So. and East Africa; XV=No. and Central Africa; XVI=West Africa; XVII=So. America (North); XVIII=Europe; XIX=South Asia; XX=Central Africa; XXI=Indonesia (East); XXII=Indonesia (West); XXIII=So. Europe/No. Africa; XXIV=Mexico.
Frequencies in bold type refer to transmissions via Bonaire; others are Lopik (Hilversum) transmissions.

November 1969-April 1970 Schedule

Afrikaans	Areas	kHz (Antenna/Beam)
16.30-16.50(W)	I	21570(R162°), 17810(R162°), 6020(nd)
Arabic		
14.00-15.20(D)	II	21570(R123°), 15425(G130°)
15.30-16.50(D)	III	11730(G163°), 9715(G163°)
17.00-18.20(D)	IV/XVIII	11730(G195°), 9715(G195°), 6020(nd)
Dutch		
00.30-01.50(D)	V	**9590**(G350°)
01.10-01.30(D)	VI	**800**(nd)
03.30-04.50(D)	VII	**11730**(G320°)
06.30-07.50(D)	VIII	**9715**(G230°)
08.00-09.20(D)	VIII	**11730**(G230°)
08.00-09.20(D)	XXIII	11785(G195°), 7210(R205°)
09.30-10.50(S)	X	21495(R162°)
09.30-10.50(S)	IX	21570(R83°)
09.30-10.50(W)	XI/XVIII	21570(R81°), 15180(G85°), 6020(nd)
11.00-12.20(D)	IX	21570(R81°), 11910(R83°)
12.30-13.50(D)	XI/XVIII	21570(R81°), 15425(G95°), 6020(nd)
15.30-16.50(S)	XII/XVIII	21570(R235°), 17810(G265°), 6020(nd)
17.00-18.20(D)	XIV	21570(R162°), 15220(G150°)
18.30-19.50(D)	XV/XVIII	9715(G195°), 6085(G163°), 6020(nd)
20.00-21.20(D)	XVI	**17810**(G80°)
21.30-22.50(S)	III	11730(G303°), 9715(G300°)
21.30-22.50(D)	XIII	**15220**(G170°)
23.00-00.20(D)	XVII	11730(G272°), 9715(G262°)
23.00-00.20(D)	VI	**6020**(nd)
English		
02.00-03.20(W)	V	**11730**(G350°)
05.00-06.20(W)	VII	**11730**(G290°), **9715**(G320°)
06.30-07.50(W)	VIII	**11730**(G230°)
08.00-09.20(W)	VIII	9715(G230°)
09.30-10.50(W)	XI	21495(R83°), 17810(G85°)
14.00-15.20(W)	XIX/XVIII	21480(R83°), 17810(G85°)
15.30-15.45(+)	V	21570(R303°), 17810(R298°)
17.30-17.45(+)	V	**17810**(G350°)
18.00-18.15(+)	V	**11730**(G350°)
18.30-19.50(W)	X	21570(R205°), **15220**(G110°), 11730(G158°)
20.00-21.20(W)	XVIII	6085(R298°), 6020(R303°)
21.30-22.50(W)	V	11730(G303°), 9715(G300°)
Spanish		
00.30-02.50(W)	VI	**6020**(nd)
02.00-03.20(W)	XVII	**9590**(G250°)
03.30-04.50(W)	XXIV	**9590**(G290°)
16.00-16.15(+)	XIII	21570(R235°), 17810(**G235°**)
17.30-17.45(+)	XVII	**11730** (G170/350°)
18.00-18.15(+)	XIII	**21630**(G170°)
21.30-22.50(W)	XXIII	**11955**(G50°), 6085(G195°), 6020(G205°)
23.00-00.20(W)	XII	9590(G262°), 6085(G260°)
English/Spanish		
23.30-01.10(W)	VI	**800**(nd)

Indonesian	Areas	kHz (Antenna/Beam)
11.00-12.20(D)	XXI/XVIII	21480(R83°), 17810(G55°), 6020(nd)
12.30-13.50(D)	XXII	21480(R83°), 17810(G85°)
French		
18.30-19.50(D)	XX	**17810**(G80°)
20.00-21.20(D)	XVI	21570(R205°), **15220**(G80°), 11730(G195°)
Happy Station (English Version)		
02.00-03.20(S)	V	**11730**(G350°)
05.00-06.20(S)	VII	**11730**(G290°), 9715(G320°)
06.30-07.50(S)	VIII	**11730**(G230°)
08.00-09.20(S)	VIII	**9715**(G230°)
09.30-10.50(S)	XVIII	7210(R298°), 6140(R303°), 6020(nd)
14.00-15.20(S)	XIX/XVIII	21480(R83°), 17810(G85°), 6020(nd)
18.30-19.50(S)	X	21570(R205°), **15220**(G110°), 11730(G158°)
20.00-21.20(S)	XVIII	6085(R298°), 6020(R303°)
Happy Station (Spanish Version)		
00.30-01.50(S)	VI	**6020**(nd)
02.00-03.20(S)	XVII	**9590**(G250°)
03.30-04.50(S)	XXIV	**9590**(G290°)
21.30-22.50(S)	XXIII	**11955**(G50°), 6085(G195°), 6020(R205°)
23.00-00.20(S)	XII	**15320**(G170°), 9590(G262°), 6085(G260°)
Happy Station (Spanish/English Version)		
23.30-01.10(S)	VI	**800**(nd)

G=Curtain antenna; R=Rhombic antenna; nd=omni-directional antenna; S=Sundays; D=Daily; W=Weekdays; (+)=Tuesday and Friday only.

PROGRAMME SCHEDULE

The Amsterdam Concertgebouw Orchestra: In Dutch: Sun 06.55, 08.25, 09.55, 11.25, 12.55, 15.55, 17.25, 18.55, 20.25, 21.55, 23.25, Mon 00.55, 03.55. In Indonesian (also other Dutch orchestras) 11.12, 12.42 on Sun.
NEWS, COMM: Afrikaans: W 16.30; **Arabic:** D 14.30, 16.00, 17.30; **Dutch:** 06.30, 08.00, 09.30, 11.00, 12.30, 15.30, 17.00, 18.30, 20.00, 21.30, 23.00, 00.30, 01.10, 03.30; **English:** W 06.30, 08.00, 09.30, 14.00, 15.30(+), 17.30(+), 18.00(+), 18.30, 20.00, 21.30, 23.30, 02.00, 05.00; **Indonesian:** D 11.00, 12.30; **French:** 18.30, 20.00 D; **Spanish:** W 16.00(+), 17.30(+), 18.00(+), 21.30, 23.00, 00.30, 03.30.
(+)=Tues and Fri only.

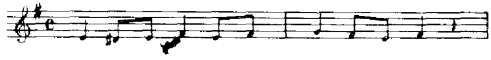
LISTENERS' REQUEST PRGRS: Afrikaans: Sat 16.40; **Arabic:** Sun and Fri 14.40, 16.10, 17.40; **Dutch:** Tues 06.55, 08.25, 09.55, 11.25, 12.55, 15.55, 17.25, 18.55, 20.25, 21.55, 23.25, Wed 00.55, 03.55; **English:** Tues 06.42, 08.12, 09.42, 14.12, 18.42, 20.12, 21.42, Wed 02.12, 05.12; **Indonesian:** 1st and 5th Tues 11.15, 12.45, Sat 11.38, 13.08; **Spanish:** Mon 22.20, 23.50, Tues 01.20, 03.00, 04.20, Fri 22.30.
TOURIST INFORMATION: Spanish: Tues and Sat 21.58, 23.28, 00.58, 02.28, 03.58.

DX-PROGRAMMES: English: Thurs 06.42, 08.12, 09.42, 14.42, 18.42, 20.12, 21.42, Fri 02.12, 05.12.
MAILBAG: Arabic: in listeners' req. prgr; **Dutch:** Thurs 06.50, 08.20, 09.50, 11.20, 12.50, 15.50, 17.20, 18.50, 20.20, 21.50, 23.20, Fri 00.50, 03.50; **English:** 2nd and 4th Fri 07.28, 08.58, 10.28, 14.58, 19.28, 20.58, 22.28, 2nd and 4th Sat 02.58, 05.58; **Indonesian:** Sun 11.42, 13.12.
LANGUAGE COURSES: Dutch by Radio: Wed 07.28, 08.58, 10.28, 14.58, 19.28, 20.58, 22.28, Thurs 02.58, 05.58, Sat 06.48, 08.18, 09.48, 14.18, 18.48, 20.18, 21.48, Sun 02.18, 05.18.

THE HAPPY STATION: Sun prgrs 8 in English and 5 in Spanish on sw, and 1 in Spanish and English on mw. Produced and presented by Edward Startz for more than 40 years, and currently by Tom Meyer. "Something of everything for everybody everywhere". For freq's see operation schedule.
RELAY SERVICE: Twice weekly news-behind the news prgr's from correspondents in European capitals for stations in US, Canada and Latin-America.

ANN: Dutch "Hier is R. Nederland Wereldomroep in Hilversum". E: "This is R. Nederland, the Dutch World Broadcasting System". F: "Ici R. Nederland, Hilversum, Holande". Indonesian: "Sisini Hilversum Siaran Indonesia R. Nederland". Sp: "Aqui R. Nederland Hilversum, Holanda". Arabic: "Idha'atu'l holanda'l Arabiya fi Hilversum". Afrikaans: "Dit is R. Nederland in Hilversum, Holland".

GENERAL INT-SIG: Old Dutch folk-song: "Merck toch hoe sterck" played on carrillon or celeste — **V.** by QSL-card.



PUB: Prgr. Sched. in Dutch, English, French, Spanish, Arabic, Afrikaans, Indonesian. A booklet on sw aerial construction and aerial filter construction in Dutch, English, Spanish, Indonesian and Arabic. Various datasheets in English to help the DXer and short wave listener to improve reception or to extend the scope of the receiver. All pub. free of charge on application. Ask for DX Information Service catalog.
TRANSCRIPTION SERVICE: A free sce. to foreign st's, issues complete prgrs about Holland and Dutch life both informative and musical, and tailored to the requirements of the areas served. **FI:** By licence payments.

RADIO BLOEMENDAAL (Rlg.)

(Operated by Geref. Kerk van Bloemendaal)
ADDR: Vijverweg 14, Postbus 26, Bloemendaal. **Te:** (023) 250471.
STATION: 1223kHz 245.3m 0.05kW.
D.PRGR: Sun and Christian Holidays 08.00-13.00, 15.00-16.00 (Religious service and religious music only) — **V.** by QSL-card.

AFN BENELUX TRANSMITTER OPERATION

ADDR: AFN Soesterberg, Camp New Amsterdam, Huister Heide.
STATIONS: 24 h.

Holland	MHz	kW	Belgium	MHz	kW
Brunssum	89.15	0.075	Brussels	100.8	0.075
Soesterberg	93.1	0.02	• SHAPE	101.5	4
Maastricht	93.4	0.075			

Program source is AFN Frankfurt studios.
D.PRGR: Relay of AFN, Germany, for NATO forces in Mons and Heerlen (Limburg) and for American Air Force in Camp New Amsterdam — **V.** by QSL-card.

HUNGARY

L.T: GMT+1h — **Pr.L:** Hungarian — **EC:** a/c 50 (yes).

MAGYAR RADIO ES TELEVIZIO (Gov.)

ADDR: Brody Sandor 5-7, Budapest VIII. **Cable:** Magyarradio. **Te:** 338-330. **Telex:** 6-67 — **L.P:** Pres and Gen. Mgr: I. Tömpe. Vice Pres: Dr. I. Hárs, Dr. K. Kiss. Dir. Adm: L. Fazekas. Dir. Tec: R. Kerpel. Dir. For. Rel: A. Budai.
STATIONS:

Location	kHz	m	kW	Prgr.
Lakihegy	539	556.6	300	K
Lakihegy	872	344.0	36	P
Pécs	872	344.0	25	P+R
Szolnok	1187	252.7	135	P
Szombathely	1187	252.7	25	P+R
Balatonszabadi	1250	240.0	135	P
Nyíregyháza	1250	240.0	25	P+R
Balatonszabadi	1340	223.9	135	F
Györ	1349	222.4	0.4	P+R
Szolnok	1349	222.4	0.4	P+R
Magyróvár	1594	188.2	0.4	P+R
Miskolc	1594	188.2	15	K+R

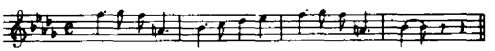
K=Kossuth Radio; P=Petöfi Radio; F=Rel. Foreign Sce; R=Reg. Prgr.

HOME SERVICE

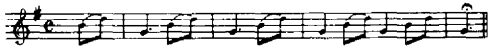
Prgr: I (Kossuth Radio): 03.30 (Sun 05.00)-23.25 (Sat 23.00).
N,Wrp: 03.30 (W), 05.00, 07.00, 09.00, 14.00, 16.00, 17.00 (Sun), 18.00 (Sun), 20.00 (W), 21.00, 23.00, 23.55 (Sat).
Prgr. II (Petöfi Radio): 05.20 (Sun 06.00)-23.10.
N: W 10.00, 12.00, 13.30, 14.30, 15.30, 16.30, 17.00, 22.00, 23.00. Sun 15.00, 22.00, 23.00 — **Wrp:** W 12.04, 12.45, 17.09, 22.09, 23.09. Sun 12.45, 15.03, 19.09, 22.00, 23.09 — **Rel. Kossuth Radio:** W 05.30-07.05.

Reg. Prgr's: Miskolc (1594)/Nyíregyháza (1250)/Szolnok (1349kHz): D 17.00-18.00.
Györ (1349kHz): W 17.00-18.00, Sun 08.00-09.00.
Pécs (872kHz): Hungarian: W 16.30-18.00, Sun 16.30-17.50, 18.50-19.00. German: W 18.30-19.00, Sun 18.20-18.50. Serbo-Croat: W 18.00-18.30, Sun 17.50-18.20.
FM Prgr's (all st's 2kW):
Budapest 66.62MHz, Pécs 69.02MHz, Miskolc 70.04MHz, Kabhegy 70.64MHz.

D.PRGR: 17.00 (Sat/Sun 15.00)-22.15. **N:** 15.00 (Sat/Sun), 17.00, 22.00 — Other times: Rel. Petöfi Radio (Pécs: Rel. Kossuth Radio).
Special Stereophonic prgr's on 67.4MHz: Mon-Fri 15.30-16.30 (Sat/Sun 13.30-14.30).
INT-SIG: R. Kossuth: Played on 3 clarinets and 1 bass clarinet.



R. Petöfi: 3 flutes, 2 violins, 1 cello, 1 doublebass.



ANN: "Kossuth Radio, Budapest — Petöfi Radio, Budapest".

FOREIGN SERVICE

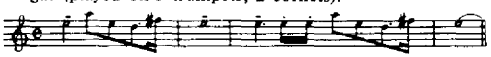
kHz	m	kW	kHz	m	kW	kHz	m	kW
539	556.5	300	7220	41.55	5	17795	16.86	3/15
1340	223.8	25	9833	30.51	15/100	17890	16.77	3
6234	48.10	5	11910	25.19	15/100	21665	13.85	3
7100	42.25	5	15160	19.79	15/100	21685	13.83	3

TO EUROPE
English **kHz**
19.30-20.00 6234,7100,9833,11910,17890
21.30-22.00 6234,7100,7220,9833,11910,17890
German
17.00-18.00 1340 (to Austria)
17.30-18.00 6234,7100,9833,11910,17795
20.00-20.15 6234,7100,7220,9833.17890
09.00-09.45* 1340,6234,7100,9833
13.30-14.00* 1340,6234,9833,11910,17795
15.30-16.00° 6234,7100,9833,11910,17795
13.00-14.00† 1340,6234,9833.11910,15160,17795
14.30-15.00† 6234,7100,9833,11910,17795
Greek
11.45-12.00(W)9833,11910,15160,17795,17890,21665,21685
17.00-17.30 6234,7100,9833,11910,17795
08.00-08.45* 6234,7100,9833,11910,17795
12.00-13.00* 7100,9833,11910,15160,17795
15.00-16.00† 7100,9833,11910,15160,17795
Hungarian
19.00-19.30 1340,6234,7100,7220,9833,17890
20.30-21.30 1340,6234,7100,7220,9833,17890
14.00-16.00* 1340,7220,9833,11910,15160,17795
05.00-05.15a 6234,7220,9833,11910,17890,21665,21685
11.00-11.15(W)9833,11910,15160,17795,17890,21665,21695
Italian
11.30-11.45(W)9833,11910,15160,17795,17890,21665,21685
18.00-18.30 6234,7100,9833,11910,17795
20.15-20.30 6234,7100,7220,9833,17890
13.00-13.30* 6234,7100,9833,11910,17795
Spanish
22.00-22.30 7100,9833,11910,17890
TO NEAR EAST
Turkish
16.30-17.00 6234,7100,9833,11910,17795
18.30-19.00 6234,7100,9833,11910,17890
10.00-12.00* 9833,11910,15160,17795,21685
TO FAR EAST
English
08.00-08.15° 11910,15160,17795,17890,21665,21685
10.15-10.30(Fri)11910,15160,17795,17890,21665,21685
TO NORTH AMERICA
English
01.00-01.30 6234,9833,11910,15160,17795,17890
03.00-03.30 6234,9833,11910,15160
05.00-05.30 6234,9833,11910,15160
Hungarian
00.00-01.00 6234,9833,11910,15160,17795,17890
02.00-03.00 6234,9833,11910,15160
03.30-04.00 6234,9833,11910,15160
TO LATIN AMERICA
Hungarian
23.00-23.30 9833,11910,15160,17795,17890,21665,21685
Spanish
23.30-24.00 9833,11910,15160,17795,17890,21665,21685
01.30-02.00 9833,11910,15160,17795,17890,21665

*) Sun only; †) Sat only; °) Wed. only; a) Home News from R. Kossuth.

DX-PRGR: English: Tues, Sat 21.30; Wed, Sun 01.00, 03.00; Wed 08.00, Fri 10.15. **German:** Wed (twice monthly 13.30 (repeated Sat 23.00): 2nd and 4th Fri 17.00 (to Austria). **Italian:** 2nd and 4th Thurs 20.15. **ANN: E:** "This is Budapest, Hungary".

INT-SIG: Excerpts from the suite "1848" by T. K. Polgar (played on 3 trumpets, 2 cornets).



V. by QSL-card. Rec. acc. — **ALF:** Forints 120,-

ICELAND

L.T: GMT−1h (Su: GMT) — **Pr.L:** Icelandic.

ICELAND STATE BROADCAST SERVICE
RIKISUTVARPID (Gov.)
ADDR: P.O. Box 120, Reykjavik. **Cable:** Utvarp — **L.P:** Dir. Gen: A. Björnsson. Dir. Prgr. Council: B. Gröndal. Dir. Adm: G. Vagnsson. Dir. Sound Radio: G. Jónsson. Dir. N: M. Indridadottir.
HOME SCE: Mon-Fri 07.00-23.30; Sat 07.00-24.00; Sun 08.30-23.30.

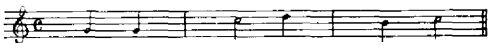
STATIONS	**kHz**	**m**	**kW**
Reykjavik	209	1435	100
Eidar	209	1435	20
Höfn	665	451.2	5
Akureyri	737	407.1	5
Alftafjordur	1133	264.8	20W
Lón	1412	212.4	20W
Húsavik	1412	212.4	20W

	kHz	**m**	**kW**
Siglufjordur	1412	212.4	20W
Raufarhöfn	1484	202.2	20W
Skúlagardur	1484	202.2	20W
Hellissandur	1489	201.4	20W
Tórshöfn	1510	198.5	20W
Kópasker	1510	198.5	20W

F.M.	**MHz**	**kW**
Vestmannaeyjar	89.1	0.2
Olafsvik	90.3	0.02
Neskaupstadur	91.0	0.03
Raufarhöfn	91.0	0.03

	MHz	**kW**
Reykjavik	94.0	0.9
Reykjavik	98.0	0.03
Hellissandur	98.4	0.02

N: W 08.30, 12.25, 16.00, 17.00, 19.00, 22.00. Sun 08.55, 12.35, 19.00, 22.00 — **ANN:** "Utvarp Reykjavik".
INT-SIG: Home Service.



V. by QSL-card. Rp—**ALF:** Kr. 900,—**EC:** a/c 50 (yes).

IRELAND

L.T: GMT+1h — **Pr.L:** Irish, English — **EC:** a/c 50

RADIO TELEFIS EIREANN (Statutory Corporation)
ADDR: Henry St, Dublin 1. **Te:** 42981. **Telex:** 5268. **Cable:** Broadcasting — **L.P:** Chmn: Dr. C. S. Andrews. Dir. Gen: T. P. Hardiman. Contr. of Prgr's (radio): R. O. Faracháin. Dir. of Eng: G. T. Waters. Head of N: J. P. McGuinness. Adv. Sales Contr: R. K. Gahan.
STATIONS: (FM all 100kW)

	kHz	**m**	**kW**		**kHz**	**m**	**kW**
Athlone	566	530	100	Cork	1250	240	10
Dublin	1250	240	5				

Kippure 95.3MHz, Truskmore 89.7MHz, Maghera 94.1 MHz, Mullaghanish 93.5MHz, Mt. Leinster 94.9MHz.
HOME SCE: W 06.00-22.45, Sun 07.00-22.45.
N: English: 06.00 (W), 07.00, 08.00, 09.00 (Sun), 12.30, 17.30, 20.00, 23.00. **Irish:** 16.55, 19.50 (W), — **Wrp:** 06.55 (W) and at end of N — **Irish Music:** 19.30 (Tues), 19.30 (Wed), 15.31 (Fri).
ANN: "R. Telefis Eireann" — **INT-SIG:** Celeste and Harp playing 4 bars of Irish air "O'Donnell Abu". **V.** by letter — **PUB:** RTE Guide — **FI:** By license payments and adv. — **AD:** 75h per week — **ALF:** £1-5-0.

ITALY

L.T: GMT+1h (Su: GMT+2h) — **Pr.L:** Italian — **EC:** a/c 50 (yes)

RAI-RADIOTELEVISIONE ITALIANA
(State Service by public act to RAI).
ADDR: Viale Mazzini 14,00195 Roma. **Te:** 38781. **Cable:** Raditro. **Telex:** 61142 — **L.P:** Pres: Prof. A. Sandulli. Vice-Pres: Dir. I. De Feo, Dr. U. Delle Fave. Man. Dir: Dr. L. Paolicchi. Dir. Gen: Dr. F. Bernabei. Vice Dir. Gen: Dr. L. Beretta, Dr. L. Piccioni, Dr. B. Vasari. Dir. Adm: Dr. G. Bodo. Dir. Radio Prgr: Dr. G. Antonelli. Dir. TV Entertainment: Prof. A. Romano. Dir. TV Cultural Prgr: F. Fabiani. Dir. Radio TV Inf. Sce's: Dr. P. E. Gennarini. Dir. Tec: Eng. G. Orsini. Dir. Gen. Aff: Eng. A. Cuturi. Dir. Secretariat Div: D. G. Pozzilli (for foreign relations contact: Secretariat Div./Dept. for Relations with International

Organizations). Chief Pers: Dr. A. Manusardi. Dir. "Radiocorriere": Dr. C. Guerzoni.

HOME SERVICES

NATIONAL PRGR: 05.05-23.00.
566kHz: Bologna I(25kW), Caltanisetta I(25), Salento I(5).
656kHz: Bolzano I(25kW), Firenze I(100), Napoli I(100), Torino I(35), Venezia I(25).
899kHz: Milano I(150kW).
1061kHz: Cagliari I(10kW), Catania I(2), Livorno I(1), Trento I(1), Udine I(2), Verona I(2).
1331kHz: Aosta I(2kW), Bari I(25), Palermo I(12.5), Pescara I(25), Roma I(150).
1578kHz: Ancona I(2kW). Brindisi I(0.1), Campobasso I(1), Aquila(1), Carrara I(0.1), Catanzaro I(1), Cosenza I(1), Foggia I(1), Genova I(50), Gorizia I(0.1), La Spezia I(1), Lecce I(1), Matera I(1), Nuoro I (1), Perugia I(1kW), Potenza I(1), Reggio I(2kW), Sassari I(2), Taranto I(1), Terni I(0.1).

N: 06.00 (W), 07.00, 09.00 (W), 12.00, 14.00 (W), 16.00 (W), 19.00, 22.00 — **Prgr. preview:** 21.45 (Sun), 22.45 (D) — **LL:** W 06.30: E (Tues, Fri), F (Mon, Thurs), G (Wed, Sat) — **Rlg. Prgr:** Sun 06.40 (Evangelistic), 08.30 (Mass from R. Vaticana) — **Tourist Prgr:** Tues-Sat 05.05-05.30 — **Reg. Sce's:** W 13.00-13.37.

SECOND PRGR: 05.00-23.05.
845kHz: Roma II(150kW).
1034kHz: Caltanisetta II(1kW), Genova II(10), Milano II(50), Napoli II(25), Pescara II(6), Potenza II(1), Venezia II(25).
1115kHz: Aosta II(2kW), Bari II(50), Bologna II(60), Pisa II(25), Trieste II(6).
1223kHz: Messina II(5kW), Rimini II(5).
1430kHz: Foggia II(1kW), Pesaro II(2), Taranto II(1).
1448kHz: Agrigento II(2kW), Alessandria II(0.1), Ascoli Piceno II(0.1), Belluno II(0.1), Benevento II (0.1), Biella II (0.1), Bressanone II(0.1), Brunico II(1), Cagliari II(1), Catania II(5), Como II(1), Cortina II(1), Cuneo II(0.1), La Spezia II(1), Merano II(1), Palermo II(12.5), Perugia II(1), Salerno II(0.1), Sassari II(5), Siena II (0.1), Sondrio II(1), Squinzano II(50), Torino II(25), Trento II(1), Udine II(2), Verona II(2).
1484kHz: Arezzo II(0.1kW), Avellino II(1), Bolzano II (2), Brindisi II(0.1), Cosenza II(1), Gorizia II (0.1), L'Aquila II(1), Lecce II(1), Nuoro II(1), Savona II(0.1), Teramo II(0.1), Terni II(0.1), Vicenza II(0.1).

N: 05.30 (W), 06.30, 07.30, 08.30, 09.30, 10.30, 11.15 (W), 12.30, 13.30 (W), 15.30 (W), 16.00 (Sun), 16.30 (W) 17.30 (W), 18.30, 21.00, 23.00 — **Maritime Wrp:** 05.25, 15.55 (W), 17.40 (Sun), 20.55 — **Reg. Sce's:** 11.20-12.00 (W), 11.30-12.00 (Sun), 13.00-13.30 (Sun).
Prgr. for tourists (May-Sept): 07.15, 17.40 (Sun), 22.00 (Sun).

THIRD PRGR: 08.25-09.00 (D): Special cultural prgr's: D 09.00-22.30 (approx).
1367kHz: Bari III(1kW), Catania III(2), Firenze III(2), Genova III(10), Messina III(2), Milano III(10), Napoli III(12.5), Palermo III(2), Pisa III(2), Roma III(6), Sassari III(2), Torino III(5), Trento III(0.5), Venezia III(25).
1594kHz: Bologna III(1kW), Bolzano III(2), Bressanone III(0.1), Brunico III(1), Cagliari III(1), Livorno III(1), Merano III(1), Trieste III(2), Verona III(2).

N: 17.00 (W), 21.00 — **Press review:** 16.00 (W), 21.15. **LL:** W. 16.20 (Rel. Nat. Prgr.).
FM Networks: 401 tr's+1251 satellites.

Regional Prgr's

Radio Trieste
On 980kHz (10kW): **In Slovene:** W 06.00-07.30, 10.30-13.45, 16.00-22.30; Sun 07.00-22.30. **N:** 06.15 (W), 07.15, 10.30 (W), 12.15, 13.15, 16.15 (W), 19.15, 22.15 — **LL (Italian):** 16.20 (Tues, Thurs).
On 818kHz (25kW): Relay National Prgr.+Reg. Prgr's. **In Italian:** 06.15-06.30 (D), W 11.05-14.18; Sun 08.30-10.40, 11.00-12.00, 13.00-13.30, 18.30-20.00 (D).
Special Reg. Sce's in Italian:
Bolzano on 656/1331kHz: 13.00-13.16 (Sun 13.30); On 1367/1594kHz: 18.15-19.30. **Pescara/Campobasso:** 06.30-06.50. **Cagliari:** 07.30-08.00 (Sun), 11.00-12.00, 18.30-19.00. **Caltanisetta:** 06.30-07.00(W), 18.30-19.00. **Venezia:** 13.00-15.30 (Sun 14.30). **Cosenza:** Mon 06.45-08.00. **Palermo:** W 06.30-06.48, 11.20-11.40; D 13.00-13.40; 18.30-19.00; Sun 22.25-22.45.
In other languages: German (Bolzano, Bressanone, Brunecco, Merano on 1594+FM): W 06.00-07.00, 08.30-11.30, 12.00-13.00, 16.00-18.15 (Mon/Thurs 16.00-17.15, 17.45-18.15), 18.30-22.00; Sun 07.00-11.30, 12.00-13.00, 13.30-18.15, 18.30-22.00. **N:** 06.15 (W), 07.45, 11.00, 12.15, 16.00 (W), 18.45 — **Mass** (Sun): 09.00.
Ladino (Bolzano 656kHz, Trento 1331kHz+FM) for Dolomites: 13.16-13.36 (Mon-Fri), 13.20-13.40 (Sat); 17.15-17.45 (Mon/Thurs) on 1594kHz+FM. **English** (Napoli) 1034kHz (for NATO-Personnel): W 05.45-07.00; Sun 07.00-08.00 ("Good morning from Naples"). **French and Italian** (bilingual): Torino FM 95.6MHz for Aosta-Valleys W 11.20-11.40.
Special experimental stereophonic prgr's (FM): 10.00-11.00, 14.30-15.30 (symphonic), 20.00-21.00 (light music) on 100.3MHz (Roma), 101.8MHz (Torino), 102.2MHz (Milano) and 103.9MHz (Napoli).

SHORT WAVES:
Nat. Prgr. on 6060/9515kHz: W 05.30-13.00, 13.37-23.00; Sun 05.30-23.00 — **2nd Prgr. on 7175kHz:** 05.00-11.20, 12.00-23.05; Sun 05.00-11.30, 12.00-13.00, 13.30-23.05. **3rd Prgr. on 3995kHz:** 16.00-22.15.
Night. Prgr. (Notturno dall'Italia:) 23.06-04.59 on 6060/9515kHz (and on 845/899kHz): Music and short news bulletins in Italian and English each full h, in French and German each half h.
NB: All transmissions with omnidirectional antennas for the Mediterranean area.

FOREIGN SERVICE

ADDR: Viale Mazzini 14,00195 Roma. **Te:** 38781.
STATIONS: Rome: 5/50/60/100kW (G.C: 12.31E/41.48N); Caltanisetta: 5/25kW (G.C: 14.04E/37.30N) —

kHz	m	kHz	m	kHz	m	kHz	m
556	530.0*	7175	41.81	9710	30.90	15340	19.56
845	355.0†	7235	41.47	11800	25.42	15400	19.48
899	333.7‡	7275	41.24	11810	25.40	17770	16.88
5990	50.08	7290	41.15	11875	25.26	17795	16.86
6060	49.50	9515	31.53	11905	25.20	17815	16.84
6075	49.38	9575	31.33	11965	25.07	21560	13.91

*) Caltanisetta; †) Rome; ‡) Milano.

EUROPEAN SERVICE: "Rome Calling Europe"

kHz	
Albanian	**kHz/Beams**
15.00-15.20	7235/9710
Bulgarian	
15.40-16.00	7235/9710
Czech	
18.15-18.30	7290/9710
21.35-21.55	6075/7275
Danish/Swedish	
20.00-20.20	7275/9710/11800
English	
19.35-19.55	7275(310°) 9710(nd) 11800(310°)
Esperanto (Sun)	
20.00-20.20	7275/9710/11800(355°)
French	
14.30-14.55	7290(310°) 9575(nd) 11875(310°)
German	
17.50-18.10[1]	5990/7235/9575
18.10-18.25[2]	5990/7235/9575
15.40-16.00[3]	5990/7290/9575

1) to We. Germany
2) to Ea. Germany
3) to Austria

Greek	
15.20-15.40	7235/9710
Hungarian	
19.35-19.55	5990/7275
Italian	
14.30-14.55[1]	9710/11905
16.05-16.55[2]	7290/9575/11905

1) incl. Maltese
2) for Ce. Europe

Lithuanian	
04.45-05.05	7275/9575
Polish	
18.45-19.05	7290/9710
22.10-22.25	6075/7275
Portuguese	
21.10-21.30	7235/9710
Rumanian	**kHz/Beams**
05.10-05.30	7275/9575
21.35-21.55	5990/7235/9710
Russian	
03.30-03.45	5990/7275/9575/11810/15340
05.35-05.55	7275/9575
16.05-16.25	9710/11875
Serbo-Croat	
15.00-15.20	5990/7290/9575
19.10-19.30	5990/7275
Slovak	
18.30-18.45	7290/9710
21.55-22.10	6075/7275
Slovene	
15.20-15.40	5990/7290/9575
Spanish	
20.50-21.10	7275/9710
Turkish	
20.00-20.20	9575/11905
Ukrainian	
03.50-04.10	5990/7275

GENERAL OVERSEAS SERVICE:
AUSTRALIA/NZ/FAR EAST

English	**kHz/Beams**
22.00-22.25	9710(90°) 11905(90°) 15340(90°)
03.50-04.10*	15340(90°) 17795(90°) 21560(90°)

*) to So. Asia

Italian	
20.50-21.30	7275/9575/11800
06.00-06.45	11810/15340/17795/17815/21560

TO AFRICA

Amharic	
04.15-04.35	15340/17795/21560
Arabic	
17.50-18.10	9710/11875
20.25-20.45	7275/9710

TO AFRICA

French	kHz/Beams
16.30-16.55	9710(nd)/ 11875(218°)
Italian	
04.35-05.10	15340/17795/ 21560
17.00-17.45	9710/11875/ 17770/17815/ 21560
Somali	
05.10-05.30	15340/17795/ 21560

TO NEAR EAST

Arabic	
05.35-05.55	9710/11810/ 15340
19.10-19.30	11800/15400/ 17770
English	
20.25-20.45	7235(nd) 9575(115°) 11800(90°)

TO MEDITERRANEAN

Italian/English	
04.15-04.40	5990/7275
Arabic (Mon-Fri)	
13.50-13.55	556/6060/ 9515
Italian (W. only)	
13.40-13.50	556/6060/ 9515

TO LATIN AMERICA

Italian	
18.30-19.05	15400/17770/ 21560
01.40-03.05	9575/11810/ 11905/11965/ 15340
Portuguese	
01.20-01.35	11905/15340/ 17770
Spanish	
01.00-01.20	11905/15340/ 17770
03.05-03.25	9575/11810/ 11905/11965/ 15340

TO NO. AMERICA

English	
01.00-01.20	9575/ 11810(310°)
French	
01.20-01.35	9575/ 11810(310°)
Italian	
22.30-01.00	9575/11810/ 11905/15340/ 17770

NEWS in English: 01.00, 03.50, 04.25, 19.35, 20.25, 22.00.

Night Prgr. (Notturno dall'Italia): 23.06-04.59 on 6060/9515kHz (and on 845/899kHz): Music and short news-bulletins in Italian and English each full h, in French and German each half h.

NB: All transmissions with omnidirectional antennas for the Mediterranean areas.

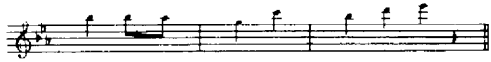
ANN: "RAI — Radiotelevisione Italiana, stazioni del programma Nazionale, Secondo Programma, Terzo Programma". Night prgr: "RAI — Radiotelevisione Italiana stazioni a onda media di Roma 2 kHz 845 pari a m.355 e di Milano 1 kHz 899 pari a m.333.7 e stazioni ad onda corta di Caltanisetta kHz 6060 e 9515 pari a m.49.50 e 31.53, "Notturno dall'Italia" — Foreign Sce: I: "RAI — Radiotelevisione Italiana — stazioni ad onda corta di m . . . . pari rispettivamenta a . . . . kHz — Transmissioni in lingua Italiana per . . .". E: "This is the Italian R. & Television Sce. Broadc. from Rome". F: "Ici la R. Italienne". G: "Hier ist der Italienische Auslandssendedienst in Rom".

INT-SIG: Bird chirping, opening signal: Bells (composition by A. Parelli) — **V.** by QSL-card — **PUB:** "Radiocorriere" (weekly) for Home Sce. Prgr. schedule 3 times a year in E, F, G, I. (Foreign Service). **ALF:** Lire 3.300,-.

LUXEMBOURG

L.T: GMT+1h — **Pr.L:** Luxembourgian, French.

RADIO LUXEMBOURG (Comm.)
ADDR: Compagnie Luxembourgeoise de Télédiffusion. Villa Louvigny, Luxembourg. **Cable:** Radio Luxembourg. **Te:** 25881. **L.P:** Dir. Gen: M. Felten. Secr. Gen: G. Graas.
STATIONS:
233kHz 1287m 600/1100kW — 1439kHz 208m 1200/600 kW — 15350kHz 19.54m 6kW — 6090kHz 49.26m 50kW.
FM: 92.5MHz 50kW — 97MHz 100kW — 88.9MHz 100kW.
HOME SCE. in Luxembourgian on 92.5MHz: W 10.30-13.00, 17.30-21.00; Sat 10.30-13.30; Sun 07.30-21.00. **N:** 11.00, 11.45, 12.00, 17.00, 17.30, 21.00.
FOREIGN SCE:
On 233/15350kHz in French: 04.10 (Sun 05.20)-02.00 (Sat 04.20-04.00).
N: (W) 05.30, 06.00, 06.30, 07.00, 07.30, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 20.00, 21.00, 22.00, 23.00, 24.00, 01.00, 02.00. (Sun): 06.30, 07.00, 07.30, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 20.00, 21.00, 22.00, 23.00, 24.00, 01.00, 02.00 — **Rlg. Prgrs.** (French): 05.05, 05.20, 05.40, 19.30. **German:** Thurs 09.30-10.25.
On 1439/6090kHz in Dutch, German, English:
Dutch: W 08.00-11.00; Sun 06.30-13.00. **N:** 08.00, 09.00, 10.00, 10.45 — **German:** 05.15-08.00, 11.00-18.30 (Sun 13.00-18.00). **N:** 05.30, 06.00, 07.00, 12.00, 18.00 — **English:** 18.30 (Sun 18.00)-02.00; also on 6090kHz 18.30-02.00.
International Rlg. Prgrs:
On 1439 6090kHz: W 04.00-05.15 in German.
On 6090kHz: Mon 18.30-18.45 Polish; Tues 19.00-19.15 Polish; Wed 18.30-18.45 German; Thurs 10.45-11.00, 18.30-18.45 German; Fri 18.45-19.15 Flemish; Sat 19.00-19.15 German; Sun 19.00-19.15 Slovak; 19.15-19.30 Flemish.
On 97MHz in German and English: German: 05.00 (Sun 06.00)-24.00 — English: 24.00-02.00 relay 1439kHz.
ANN: F: "Ici R. Luxembourg". E: "This is R. Luxembourg". Dutch: "Hier is R. Luxembourg". G: "Hier ist R. Luxembourg". Luxembourgian: "Hei ass R. Letzeburg" — **INT-SIG:** Melody played on piano: A Luxembourgian popular song.



V. by letter or QSL-card — **ALF:** Bfrs. 96.-

MALTA (State of)

L.T: GMT+1h — **Pr.L:** English, Maltese — **EC:** a/c 50 (yes).

BROADCASTING AUTHORITY MALTA
An independent Authority, to regulate and supervise sound and television broadc. in Malta with power to prescribe and produce prgr's.
ADDR: 12, Old Treasury Str, Valletta. **Cable:** Broadcasts. **Te:** Ce 21281 — **L.P:** Chmn: J. A. J. Montarano-Gauci, CBE, KM, LID. Chief Executive: Vacant. Secr: A. J. Ellul.

RADIO MALTA
(Comm. a subsidiary of the Radio Malta TV Sce. Ltd.)
ADDR: P.O. Box 384, Gwardamangia. **Te:** 25051 — **L.P:** Man. Dir: E. A. Hamilton Hill, OBE. Gen. Mgr: Graham Binns, MA. Mgr: John Manduca.
STATIONS: 1214kHz 247m 1kW —**FM:** 89.7MHz 1kW (ERP).
D.PRGR. in Maltese and English (test tr's only): D 07.30-22.00. Reports not wanted.

BRITISH FORCES BROADC. SCE. MALTA
is operated by the Ministry of Defence to provide a sce. of inf. entertainment as well as a link with home for H.M. Forces in Malta. It is non-comm, does not accept paid adv.
ADDR: B.F.P.O. 51, Malta — **L.P:** St. Contr: J. M. Cambell (from March '70: P. K. Holwill). Prgr. Org: E. A. King. Sen. Eng: G. E. Mills.
STATION: 1425kHz 210.5m 1kW; 93.7MHz 4kW.
D.PRGR'S: 08.00-11.15(W), 16.00-22.15(W); Sat 08.00-23.00; Sun 10.00-22.15. **N:** 11.00(W), 17.00, 18.00, 22.00.
ANN: "This is the British Forces Broadc. Sce. Malta".
INT-SIG: "The Waltzing Bugle Boy" (Celeste) — **V.** by QSL-card. Rp. — **PUB:** "Listen In" and "Gwida" both weekly.

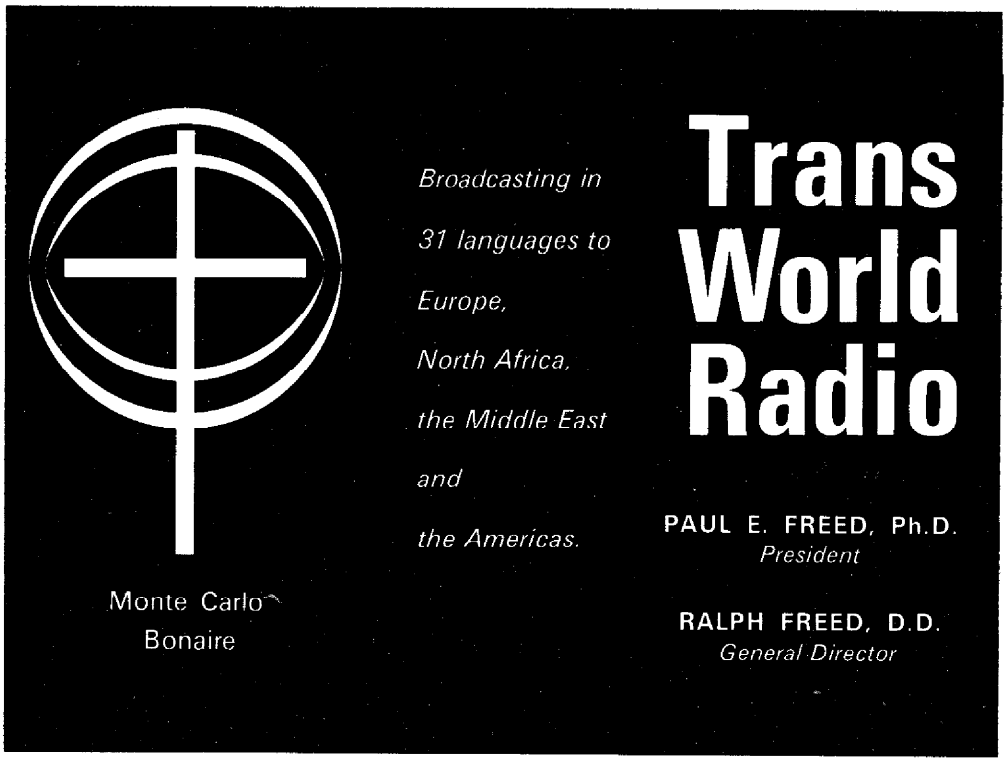
CENTRAL MEDITERRANEAN RELAY (Relay of BBC Arabic Sce.)
For Libya/Tunisia: On 1546kHz 194.0m 10wW: Arabic 03.45-05.45, 13.00-21.00.

REDIFFUSION MALTA LTD. (Priv, Comm.)
ADDR: P.O. Box 82, Gwardamanga. **Cable:** Rediffusion. **Te:** Central 25051 — **L.P:** Man. Dir: E. A. Hamilton-Hill, OBE. Gen. Mgr: Graham Binns. Mgr: J. N. Tabone, CPA, FCCS.
D.PRGR: Prgr. 1: 06.00-23.00. Mainly BBC (World Sce) with locally produced substitutions — Prgr 2 Maltese 05.00-22.00. Local prgr's — **ALF:** £1-0-0.

MONACO

L.T: GMT+1h — **Pr.L:** French — **EC:** a/c. 50 (yes).

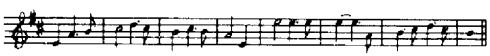
RADIO MONTE CARLO (Comm.)
ADDR: B.P. 128, Monte Carlo. **Cable:** Radio Carlo. **Te:** 305252 — **L.P:** Pres. of Adm: C. C. Solamito. Dir. Gen: J. Maziol. Dir. Tec: G. Auvray. Dir. of Prgr's: J. Gauthier. Dir. of Comm. Sce: E. Bosio. Dir. of Comm. Prgr's: J. Mathieu. Chief Press Section: Jean-Louis Medecin. Editor-in-chief: Jean-Michel Royer.



STATIONS (G.C: 07.26E/43.44N):

kHz	m	kW	kHz	m	kW
218	1376.0	1200	6035	49.71	30
1466	204.6	400	7135	42.05	30

FM: 93.5MHz 30kW.
HOME SCE: 05.00-01.00 — **N:** From 06.00 to 18.00 every h on the h exc. 08.00, 18.30, 21.00, 23.00.
FOREIGN SCE: Two 100kW sw-tr's in the 49, 41, 31, 25 m.b. (see Trans World Radio).
ANN: "Ici Monte Carlo"—**INT-SIG:** L'Hymne National Moné-Gasque".



V. by letter — **PUB:** Weekly prgr. sched.

TRANS WORLD RADIO
ADDR: P.O. Box 141, Monte Carlo. **Te:** 302233. **Cable:** Votan — **L.P:** Pres: Paul E. Freed, PhD. Gen. Dir: Ralph Freed, DD. Field Dir: E. A. Priddy. Broadc. Coordinator: R. Hertzog. Scientific Adviser: L. M. Muggleton, PhD, FIEECEng. Dir. of Public Rel: David L. Carlson. Head, English Sce: Mrs. Ralph Freed. Head, French Sce: R. Bührer. Head, German Sce: H. Schulte. Head, Spanish Sce: M. Valbuena. Head, Portuguese Sce: J. Lima. Head, Russian Sce: N. Leonovich.
STATIONS: 2×100kW tr's (G.C: 07.26E/43.44N):

kHz	m	kHz	m	kHz	m	kHz	m
5960	50.34	7290	41.15	9635	31.14	9735	30.82
7230	41.49	9570	31.35	9650	31.09	11705	25.63
7260	41.32	9575	31.33	9655	31.07	11820	25.38
7275	41.24	9585	31.30	9665	31.04	11845	25.33

SHORTWAVE SCHEDULE
2/11/69-28/2/70

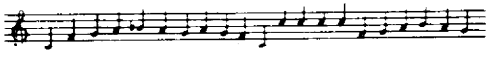
Target areas: *) Middle East; †) North Africa. No indication=Europe.

Albanian kHz
16.45-17.00(Fri) 7275
Arabic
13.35-13.50(Fri/Sat) †7260
18.00-18.15(D) *11705
18.00-18.30(Thurs) *11705
Armenian
18.30-18.45(D) *11705
Bulgarian kHz
07.00-07.30(Sun) 9575
18.00-18.15(Wed-Sat) 7275
Catalan
13.00-13.15(Wed) 7260
Chinese
13.30-13.45(Mon) 9655
Czech kHz
16.45-17.00
(Sun/Thurs/Sat) 7275
17.15-17.30(Tues-Fri) 7275
Dutch
10.00-10.30(Sat) 9665
English
07.25-11.15(Sun) 7290
07.25-08.45
(Mon/Wed/Fri) 7290
07.25-09.00
(Tues/Thurs/Sat) 7290
15.00-16.30(Sun) 7290
19.15-19.30
(Tues/Wed) *11705
Estonian
16.30-16.45(Sun) 9585
17.30-17.45
(Sun/Tues/Fri) 9585
Finnish
16.30-16.45
(Tues/Thurs/Fri) 9585
French
11.45-12.00(D) 5960/
7260
12.00-12.15
(Wed/Thurs/Fri) 7260
12.00-12.15 7260/
(Sun/Wed) 5960
19.15-19.30
(Sun/Mon) *11705
German
09.05-09.20(D) 7230
09.05-09.20(W) 9570
11.25-11.40(D) 7230
14.30-14.55(D) 7230/
9655
Greek
12.15-12.45(Sun) 9735
12.15-12.30(W) 9735
Hebrew
19.00-19.15(D) *11705
Hungarian
17.15-17.30(D) 7275
17.30-17.45(Thurs-Sat) 7275
Italian kHz
12.20-12.35(W) 5960
12.25-12.50(Sun) 5960
Latvian
16.30-16.45(Sat) 9585
Lithuanian
16.30-16.45(Sat) 9585
Norwegian
17.00-17.30(D) 9585
Polish
16.00-16.15(D) 9585
Portuguese
19.30-19.45(Sun) 9635
Rumanian
17.30-18.00
(Sun/Wed) 7275
Russian
05.40-06.10(Sun) 11820
05.40-06.25(Sun) 9650
15.20-15.55(D) 11845
18.35-19.05(Sun) 9585
18.30-18.45(Mon-Fri) 9585
18.45-19.00
(Mon-Thurs) 9585
Spanish
10.30-11.15(Sun) 7260
13.00-13.30(D) 7260
13.00-13.35
(Mon/Wed/Fri) 7260
Swedish
17.30-17.45(Thurs) 9585
Turkish
18.15-18.30
(Tues/Fri) 11705
Ukrainian
15.05-15.20(Fri-Sun) 11845
18.05-18.35(Sun) 9585
18.30-19.00(Sat) 9585
Yiddish
08.45-08.55(Sun) 7230
15.05-15.20(Wed) 11845
19.15-19.30
(Thurs/Fri) *11705
Yugoslavian
13.30-13.45(Sun) 7260
16.45-17.00
(Mon/Tues/Wed) 7275

MEDIUM WAVE PROGRAMMES: On 1466kHz: **Arabic:** 21.45-22.00 (Fri), 22.15-23.00 (Wed/Thurs), 22.45-23.00 (Tues) — **Berber:** 21.30-21.45 (Fri) — **Dutch:** 22.00-22.15 (Wed) — **English:** 21.30-22.30 (Sun/Tues/Thurs), 21.30-22.45 (Mon), 21.30-22.00 (Wed), 22.00-22.30 (Fri) — **Faroese:** 22.30-22.45 (Tues) — **French:** 21.00-21.05 (D), 22.45-23.00 (Sat) — **German:** 04.45-05.15 (D), 21.05-21.30 (D) — **Hungarian:** 22.45-23.00 (Mon) — **Italian:** 22.30-23.00 (Fri), 21.30-22.45 (Sat) — **Spanish:** 22.45-23.00 (Sun) — **Yugoslavian:** 22.30-22.45 (Sun).

LONG WAVE PROGRAMMES (218kHz):
French: 04.30-04.45 (Tues), 04.45-05.00 (D).

ANN: E: "This is Monte Carlo" or "You are listening to Monte Carlo. We invite our listeners in the British Isles to stay tuned to the following prgr's of Trans World Radio". F: "Ici Monte Carlo, Trans World Radio vous presente un programme en language Française". G: "Hier ist Monte Carlo, von Trans World Radio hören Sie ein Programm in deutscher Sprache".
INT-SIG: Musical Box.



V. by QSL-card. Recordings accepted.
PUB: Mw+sw schedules available on request — **FI:** Dedicated excl. to broadc. Gospel of our Lord and Saviour Jesus Christ and is maintained by free will contributions.

NORWAY

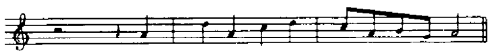
L.T: GMT+1h — **Pr.L:** Norwegian — **EC:** a/c 50 (yes).
NORSK RIKSKRINGKASTING (Gov.)
A non-comm. enterprise operated by an indep. State organization.
ADDR: Bj. Bjørnsons Plass 1, Oslo. **Te:** 469860. **Cab'e:** Studio. **Telex:** Radio 11023, Television 11794, Foreign Relations Service 16820 — **L.P: Radio and Television:** Dir. Gen: Dr. Hans Jacob Ustvedt. Dir. Adm: O. Granlund. Chief Secr: B. Kragem. Dir. Personnel: O. Svanevik. Editor "Programbladet": B. Marthinsen. Head of Foreign Relations Service: K. C. Lyche. Press and Inf. Officer: O. Grythe — **Radio:** Dir. Prgr: T. Elster. Dir. Tec: E. Julsrud. Prgr. Editors: A. Klæbo, H. Kiran, H. Sv. Nesheim, P. Riste, L. Rustad, H. Heiberg, K. Lange, P. Bøhn. Shortwave Dept: E. Thokle. **Television:** Dir. Prgr: O. Nes. Dir. Tec: T. Navelsaker. Prgr. Editors: J. Fryden-Lund, T. Berg, A. Okkenhaug, E. Diesen, T. B. Thoresen, L. Johnson, O. Foss, Rigmor Rodin.

LONG AND MEDIUM WAVES:

	kHz	m	kW		kHz	m	kW
Tromsø	155	1934	10	Notodden	1115	269	1
Oslo	218	1376	200	Stavanger	1313	228	100
Sulitjelma	511	587	0.25	Odda	1466	205	0.25
Røros	520	577	0.25	Geilo	1466	205	0.25
Vigra	629	477	100	Kautokeino	1466	205	1
Bodø	674	445	10	Narvik	1466	205	1
Finmark	701	428	20	Porsgrunn	1466	205	0.25
Bergen	890	337	20	Sandnessjøen	1466	205	0.25
Kristiansand	890	337	10	Svalbard	1466	205	1
Trøndelag	890	337	10	Brønnøysund	1484	202	0.25
Alta	1115	269	0.25	Glomfjord	1484	202	0.25
Arendal	1115	269	0.25	Karasjok	1484	202	1
Bø i Vesterålen	1115	269	1	Mosjøen	1484	202	0.25
Lista	1115	269	0.25	Riukan	1484	202	0.25
Mo i Rana	1115	269	0.04	Fredrikstad	1578	190	10
Namsos	1115	269	1	Nordkapp	1578	190	1.3

FM:	MHz	kW		MHz	kW
Nordhue	87.6	60	Stord	96.0	60
Hovdefjell	87.8	25	Hasvik	90.1	3
Gulen	88.0	15	Steigen	90.3	30
Trolltind	88.2	9	Steinkjer	90.9	12
Hemnes	88.5	30	Kongsberg	91.3	60
Oslo	88.65	100	Gamlemsveten	91.9	60
Karasjok	88.75	1.8	Sogndal	91.5	30
Greipstad	88.8	11	Bagn	91.7	30
Narvik	88.8	15	Kistefjell	91.8	1.8
Bergen	89.1	60	Varanger	91.8	30
Reinsfjell	89.1	30	Grong	91.9	60
Vega	89.3	25	Hadsel	92.4	15
Nordfjordejd	89.4	15	Melhus	92.4	60
Tana	92.5	30	Ramsöy	95.9	2.1
Førde	92.8	15	Hammerfest	96.6	30
Lønahorgi	93.3	60	Hestmannen	97.0	2
Bokn	93.5	100	Fauske	97.6	1.3
Leisja	93.5	3.1	Lyngdal	97.6	12
Bremanger	93.6	15	Tron	98.3	30
Bjerkreim	94.2	60	Grimo	98.4	1.1
Jetta	95.9	15	Lakselv	99.9	2.4

+107 low power satellite tr's.
Power Line Distribution: Langerak 300kHz 0.6kW, Brokke 290kHz 1kW, Oppdal 290kHz 1kW, Røldal 285kHz 1kW, Tonstad 290kHz 2kW, Verma 290kHz 0.3kW, Arøy 300kHz 0.66kW.
HOME SCE: W 05.40-09.25, 10.20-13.30, 15.00-23.00; Sun 06.30-14.00, 15.00-23.00. **N:** 05.40 (W), 07.00 (W), 08.00 (Sun), 12.10, 15.05, 17.35, 21.10, 23.00 — **Wrp:** 05.40 (W), 07.00 (W), 08.00 (Sun), 12.00, 17.30, 21.00 — **Rlg:** Sun 10.00, Thurs 17.00, W 07.15 — **Samisk** from Tromsø (1935m) and Vadsø: Mon, Wed 13.50, Tues 13.25, Thurs, Sat 13.40.
Reg. Prgr's (over all tr's): W 13.00-13.30.
ANN: "Dette er Norsk Rikskringkasting". In Samisk: "Dát læ Norga Riikareádio, Tromsas. Dii gullabettet Samigiel programma".
INT-SIG:



FOREIGN SERVICE

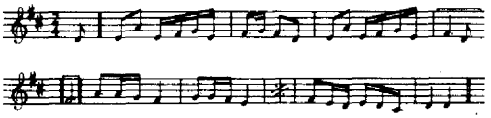
Tr's: Fredrikstad 120kW(2), 100kW(2), 10kW(2). Freq's that may be used during the year.
G.C: Frederikstad 10.58E/59.11N, Tromsø 18.55E/69.41N.

Call	kHz	m	Call	kHz	m
LKF	1578	190.1	LKV	15170	19.78
LKJ	6130	48.94	LLM	15175	19.77
LLI	6185	48.50	LKU	15345	19.55
LLS	7210	41.61	LKW	17775	16.88
LLJ7	7225	41.52	LLJ9	17795	16.86
LLR	*7240	41.44	LLN	17825	16.83
LLD	9550	31.41	LKC	21655	13.86
LLG	9610	31.22	LLP	21670	13.85
LLH	9645	31.10	LLQ	21730	13.81
LKQ	11735	25.56	LLL	25730	11.66
LLK	11850	25.32	LLA	25900	11.58
LLJ	11860	25.30	*) Tromsø 10kW.		

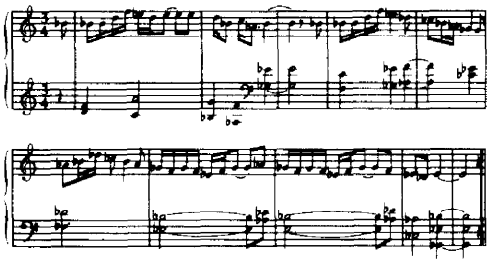
Abbreviations: I=Pacific/No.+We. Africa/Japan, Ea. Australia, N.Z./Indonesia, W. Australia/China, Philippines, Indonesia; II=We. Europe (Norway)/Japan, Ea. Australia, NZ/No.+We. Africa/India, Indonesia, We. Australia; III=Arctic Sea, China, Japan/No.+Ea. Africa/No.+So. Africa/We. Indies, Ce. America/Mid. East, Ea. Africa; IV=Iceland, Greenland, US (West)/Mid. East, Ea. Africa/We. Africa, So. America/US (East), We. Indies, Ce. America; V=No.+Ea.+So. Africa/We.+So. Africa, Antarctica/We. Indies, Ce. America/ So. America, Antarctica; VI=Pacific/No.+Ea. Africa/Ea.+So. Europe, So. Africa/US (East)+We. Indies/We. Africa; VII=We. Indies, Ce. America/So. America/US (East)+Ce. America; VIII=Newfoundland, We. Indies/US, Ce. America/So. America/Scandinavia+No. Sea; IX=US+Ce. America/Greenland, US (West). Pacific/Newfoundland, US (East), Ce. America/Scandinavia+No. Sea; X=US (West)+Pacific/US (East), We. Indies, Ce. America/US (West)/Scandinavia+No. Sea.
Stations: Freq's in bold types refer to tr's of 100 or 120kW; others 10kW.—*) omnidirectional aerial.

Times	Area	kHz/Beams
07.00-08.30	I	**11735** (100°), 21655 (185°), **21730** (45°), 25730 (95°), **25900** (70°)
11.00-12.30	II	***7210, 11735**/21655 (45°), 25730 (185°), **25900** (100°)
13.00-14.30	III	**9645** (45°), 21655 (150°), **21730** (185°), 25730 (275°), **25900** (135°)
15.00-16.30	IV	**17825** (330°), 21655 (150°), **21730** (330°), 25730 (225°), **25900** (280°)
17.00-18.30	V	**15175** (150°), 21655 (150°), **21730** (185°), 25730 (275°), **25900** (225°)
19.00-20.30	VI	**9645** (05°), **11735** (150°), **11850** (185°), 21655 (275°), 25730 (225°)
21.00-22.30	VII	**11735** (260°), **11850** (225°), **11860** (290°)
23.00-00.30	VIII	**9645** (290°), **11735** (315°), **11850** (225°), *1578
01.00-02.30	IX	**9550** (310°), **9610** (330°), **9645** (290°), *1578
03.00-04.30	X	**9610** (330°), **9645** (290°), **11735** (330°), *1578

Programmes in NORWEGIAN
Each tr. 90 min's (Sun/Mon 60 min's. followed by 30 min's. English).
00 Sig. Tune
00.25 Announcement in English and Norwegian
02 News
12 Actualities
22 Press review
30 Local News (Tues/Wed to 55)
45 Mon/Tues: Sports
Wed/Thurs and Sat/Sun: Request prgr. (to 85)
Thurs/Fri: Foreign Affairs
Fri: Church and Mission
55 Tues/Wed: Pop, Entertainment
Thurs/Fri: Feature
Fri/Sat: Shipping, Parliament
80 Fri/Sat: News in Spanish
85 News Summary
88 Announcement in English and Norwegian
89.35 Sig. tune
Programmes in ENGLISH (Sun/Mon only):
Each tr. 30 min. beginning on the hour.
00 First bars of concerto for piano and orchestra in a-minor by Grieg with announcement
01 Introduction
02 News
05 Press Review
08 Musical Interlude
09 Actuality
12 1-3 short features such as:
Pop Inn, Listeners' Corner, Topic of Today, Roving Reporter, Recorded Classics, Far & Wide — meet us as we are, Book Review, In Town Today, etc.
28 Announcements
29.35 Sig. Tune
ANN: "This is the Overseas Service of Radio Norway".
SIG. TUNE: Each sw tr. begins and ends with theme which originates from an ancient folk tune from Hallingdal.



Five minutes previous to every sw tr. the following signal is sent:



Prgr's in English: Tr's include news, music, interviews and feature prgr's.
We are grateful for comments on our transmissions. Reports are answered by QSL-cards. Rp. not necessary. Our postal address is: Radio Norway, Oslo, Norway.
PUB: Programbladet (weekly); Prgr. schedule free on request — **ALF:** N. Kr. 50.00.

UKE-SENDEREN
is operated by students of the Technical University of Trondheim all odd-numbered years, and by students of the University of Oslo all even numbered years.
STATIONS: Depend on issuing authorities (Telegrafstyret) —
D. PRGR'S: Depend on issuing authorities (NRK).

NOREA RADIO (Nordic Radio Evangelistic Assn.)
ADDR: Grensen 19, Oslo 1. **Te:** 417640. **Cable:** Norskluth — **L.P:** Dir. Adm. and Prgr: Å. Nevland. Dir. Tec: S. Spikkeland.
D.PRGRS: Norwegian: 17.00-17.30 on 9585kHz (100kW) over R. Monte Carlo; 21.45-22.00 (Sat) on 800kHz (500kW), 03.30-03.45 (M_{ON}) on 9695kHz (50kW) over Trans World Radio, Bonaire; 05.45-06.00 (Sun) over 6130/9645/11910, 20.45-21.00 (Sun) over 15325/17880 over Radiostation HCJB "The Voice of the Andes", Quito, Ecuador.
Weekly prgrs. in Hungarian and Russian are produced and sponsored in co-operation with TWR, Monte Carlo. Daily prgrs. in the Japanese language in co-operation with "The Lutheran Hour" in Japan. A weekly prgr. in Chinese over st. HLKX, Inchon, Korea 11.40-11.55 (Sun), 03.40-03.55 (Mon) on 1090kHz.
V. by QSL-card and letter — **FI:** By gifts from listeners and friends.

POLAND

L.T: GMT+1h — **Pr.L:** Polish — **EC:** a/c 50 (yes).
POLSKIE RADIO I TELEWIZJA (Gov.)
ADDR: Komitet do Spraw Radio i Telewizjii "Polskie Radio i Telewizja", ul. Noakowskiego 20, Warsaw. **Te:** 2106. **Cable:** "Polskieradio" — **L.P:** Pres: W. Sokorski. Vice Pres. Home Sce: E. Adamiak, A. Olcha. Vice Pres. Engineering: K. Kozlowski. Dir. Prgr. Home Sce: Z. Lipinski. Dir. Prgr. Foreign Sce: W. Skrabalak. Vice Pres. for TV: St. Stefanski. Dir. Adm: A. Landau. Secr. Gen: H. Cendrowski. Dir. Music: R. Jasinski. Dir. Tec: K. Krajewski. Head Intern. Relations Office: Dr. S. Mikulicz.
HOME SCE: Long & Medium Waves:

	kHz	m	kW
Warszawa I	227	1321.6	500
Poznan	737	407.1	300
Warszawa II	818	366.7	300
Katowice	1079	278.0	60
Kraków	1205	249.0	60
Rzeszow	1205	249.0	60
Wroclaw	1259	238.3	100
Zielona Góra	1259	238.3	50
Gdansk	1304	230.1	60
Szczecin	1304	230.1	160
Bialystok	1367	219.5	60
Lublin	1367	219.5	60
Lódź	1367	219.5	60
Kielce	1484	202.2	2
Jelenia Góra	1484	202.2	2
Lódź	1484	202.2	2
Olsztyn	1484	202.2	1
Slupsk	1484	202.2	2
Szczecinek	1484	202.2	2
Zakopane	1484	202.2	2
Opole	1594	188.2	2
Koszalin	1594	188.2	2
Gizycko	1484	202.2	2

FM st's:	MHz	kW	Prgr.
Rzeszów	65.9	7	I+III
Szczecin	65.96	74	I
Katowice	65.99	14	I+III
Kraków	66.11	120	I+III
Koszalin	66.17	54	I+III
Poznan	66.62	38	I+III
Gdansk	67.07	40	II
Czesto-chowa	67.79	10	I+III
Warszawa	67.94	100	I+III
Rzeszów	68.24	7	II
Katowice	68.33	14	II
Lódź	68.51	80	II
Kraków	58.75	120	II
Szczecin	68.78	74	II+III
Byd-ogoszcz	68.96	32	II
Czesto-chowa	68.96	10	II
Zielona Góra	69.14	5.2	II

Served area	MHz	kW	Prgr.
Warszawa	69.2	100	II
Olsztyn	69.56	76	II
Poznan	69.74	38	II
Koszalin	69.92	54	II
Lublin	69.92	60	II
Bialystok	70.01	74	II
Gdansk	70.31	40	II
Kielce	70.49	62	II
Wroclaw	70.67	120	II
Lódź	71.45	80	I+III
Olsztyn	72.38	76	I+III
Zielona Góra	72.50	52	I+III
Lublin	72.59	32	I+III
Bydgoszcz	72.62	32	I+III
Kielce	72.71	62	I+III
Bialystok	72.80	74	I+III
Wroclaw	72.89	120	I+III
Warszawa	97.6	40	I+III

We need *your* help

especially if you are an expert on Latin America and/or other continents.

The WRTH always invites assistance from experienced DX-ers in order to procure supplementary information for use in the 1970 Summer Edition of the WRTH.

If you believe that you may be able to render us any assistance in this respect, please write for further details.

World Radio TV Handbook Co. Ltd.
Søliljevej 44, 2650 Hvidovre, Denmark

Prgr. I: W 03.57 (Sun 04.30)-23.00.
N: 04.00 (W), 05.00, 06.00, 07.00, 08.00 (Sun), 11.04, 14.00, 16.00, 19.00, 22.00 — **Folk Music:** W 11.45-12.00. **Chopin Concert:** Wed 20.00-20.30 — **The Polish Radio Symphony Orchestra (WOSPR) Concert:** Mon 20.00-22.00. **L.L: English:** Mon, Thurs 17.30. **French:** Wed, Sat 17.30. **Russian:** Tues, Fri 17.30.
Prgr. II: On 818kHz+all mw-st's: 03.57 (Sun 05.00)-01.00. **On FM:** 03.57 (Sat 03.27, Sun 04.27)-23.00. **N:** 04.30 (W), 05.30, 06.30, 07.30, 11.04, 15.00 (W), 16.00 (Sun), 20.00, 22.50 — **Chopin Concert:** Sun 15.30-16.00 — **National Philharmonic Concerts:** Fri 18.30 — **Symphonic Concert:** Sun 11.10 — **L.L: English:** Tues, Fri 08.45. **French:** Thurs, Sun 08.45. **Russian:** Wed, Sat 08.45.
Prgr. III: D 18.00-23.00.

FOREIGN SERVICE

STATIONS:

kHz	m	kW	kHz	m	kW	kHz	m	kW
737	407.1	300	6135	48.90	100	9675	31.01	100
818	366.7	300	7125	42.11	100	11815	25.39	100
1259	238.3	100	7145	41.99	15/40	11840	25.34	100
1367	219.5	60	7285	41.18	40	11955	25.09	15
1502	199.7	300	9525	31.50	100	15275	19.64	100
5995	50.04	10	9540	31.45	40	17865	16.80	100
6035	49.71	6	9635	31.14	40			

TO EUROPE

Danish	kHz
12.00-12.30	1502,5995, 7285,9540, 11955
15.30-15.55 } 19.30-19.55 }	6135, 7145
English	
07.00-07.30	6035,7125
11.00-11.25	7145,9675
18.30-19.00	6135,7145
19.30-19.57	6035,7125
20.30-20.55	6135,7145
22.30-23.00	1502,5995, 7285,9540, 11955
Esperanto	**kHz**
05.30-06.00	1502,5995,
Esperanto	**kHz**
05.30-06.00	7285,9540, 11955
15.30-15.57	7125,9525
Finnish	
15.30-16.00 } 20.00-20.30 }	1502,5995, 7285,9540, 11955
French	
10.30-11.30	7125,9525
18.00-18.30	6135,7145
20.00-20.27	6035,7125
21.00-21.30	1502,5995, 7285,9540, 11955
21.30-21.55	6135,7145
German	**kHz**
07.30-08.00	1502,5995, 7285,9540, 11955
11.30-11.55	1502,5995, 7145,7285, 9540,9675, 11955
15.00-15.30 } 17.30-18.00 }	1502,5995, 6135,7145, 7285,9540, 11955
19.00-20.00	1502,5995, 7285,9540, 11955
21.00-21.30	6135,7145
23.03-23.55	1502,5995, 6135,7145, 7285,9540, 11955 and on 737,1259 (exc. Sat)
Italian	
04.30-05.00	1502,5995, 7285,9540, 11955
11.30-12.30	7125,9525
17.30-17.55	6035,7125
21.00-21.27	6035,7125
22.00-22.30	1502,5995, 7285,9540, 11955
Polish	
06.00-07.00	1502,5995, 6035,7125, 7145,7285, 9540,9675, 11955
07.00-08.00	7145,9675
12.30-13.25	7125,9525
15.00-15.30	7125,9525
16.30-17.25	1502,5995, 6135,7125, 7145,7285, 9525,9540, 11955
19.00-19.30	6135,7145
21.30-21.55	6035,7125
23.03-24.00	818 (and on 1367 exc. Sat/Sun)
Polish	**kHz**
02.00-03.00	1502,5995, 7885,9540, 11955
02.00-03.55	6035,6135, 9635,11815
Polish for seamen	
14.00-14.55	1502,5995, 7285,9540, 9635,11800, 11815,11955, 15275
22.00-22.55	6035,7125, 9675,11840
00.00-01.55	6035,9635, 11815,15275
04.00-04.55 } 05.00-05.55 }	7125,7145, 9525,9675
Spanish	
13.30-13.55	9525,11815
18.00-18.27	7125,9525
20.30-20.55	6035,7125
23.00-23.55	6035,7125
Swedish	
07.00-07.30 } 11.00-11.30 } 16.00-16.30 } 18.00-18.30 } 20.30-21.00 }	1502,5995, 7285,9540, 11955
Concerts	
12.30-14.00	1502,5995
00.00-02.00	7285,9540, 11955

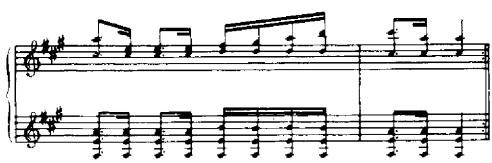
TO AFRICA

English	kHz
13.00-13.25	15275,17865
19.00-19.25	9525,11815
22.00-22.30	6035,6135, 7125,7145
French	
12.30-13.00	15275,17865
18.30-19.00	9525,11815
22.30-22.55	6135,7145

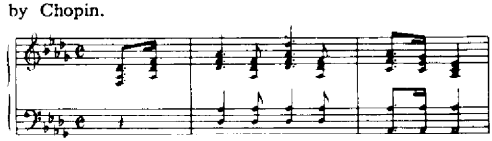
TO NORTH AFRICA/ MIDDLE EAST

Arabic	kHz
12.00-12.25	11840,15275
13.30-13.55	11840,15275
16.00-16.25	9525,11815, 15275,17865
20.00-20.27	6135,7145

DX-PRGR: Swedish: Thurs 16.00, 18.00; **Finnish:** Every 2nd Thurs of month 15.30 and following Fri 20.00.
ANN: Home Sce: "This is Polskie Radio Warsaw" (or another station when local programme) — "Tu Polskie Radio Warszawa" — **Foreign Sce: E:** "This is Warsaw calling" — **Polish:** "Mowi Warszawa" — **F:** "Ici Varsovie, etc" — **G:** "Hier spricht Warszawa" — **Sp:** "Habla Radio Varsovia" — **I:** "Qui Radio Varsavia" — **Danish:** "Her er Warszawa" — **Swedish:** "Här är Polens Radio Warszawa".
INT-SIG: Warsaw National, Warsaw I:



Warsaw II: First movement of Polonaise in A flat major by Chopin.



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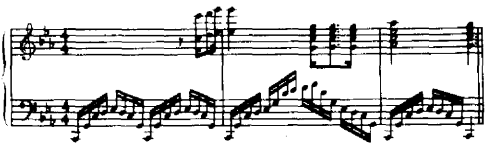
Foreign Sce: Revolutionary Etude by Chopin —



V. by QSL-card and letter. Re. to Polskie Radio, Al Niepodleglosci 75/77, Warsaw — **PUB:** "Radio i Telewizja" (weekly), Polish Radio and Television Bulletin (monthly) — **FI:** By licence payments — **AD:** 7% of broadc. time — **ALF:** 180,- Zlotys'.

POLISH PATHFINDERS STATION
(Operated by the Polish Pathfinders Union) — **ADDR:** Konopnickiej 6, Warsaw — **HOME SCE. in Polish:** D 11.00-17.00 (exc. Mon) on 6850kHz 43.80m 0.35kW, 7306lkHz 21.06m 0.35kW — **V.** by letter. Rp.

PORTUGAL

L.T: GMT+1h — **Pr.L:** Portuguese — **EC:** a/c 50 (yes).

EMISSORA NACIONAL DE RADIODIFUSAO (Gov.)
ADDR: Central Sce: Rua do Quelhas 2, Lisboa. **Cable:** "Emissora-Lisboa". **Te:** 538 PBX — Reg. Sce's: Emissor Reg. do Norte: Rua Candido dos Reis, Porto — Emissor Reg. de Coimbra, Rua Dr. J. A. dos Reis (celas), Coimbra — Emissor Reg. do Sul, Faro — Emissor Reg. dos Açores, Ponta Delgada, Açores — Emissor Reg. da Madeira, Funchal.
L.P: Dir. Gen: S. Allegro. Dir. Tec. Eng: M. Bivar. Dir. Adm: Dr. C. Pires. Dir. Prgr: Dr. C. Gonçalves. Head, International and Cultural Exchange Dept: Dra. M. de Barros Santos.

HOME SERVICE

NETWORK I: 06.00-00.00 (Sat 01.00)

MW:	kHz	m	kW		kHz	m	kW
Faro	557	539	1	Portalegre	1196	250	1
Guarda	557	539	1	Chaves	1250	240	1
Vila Real	620	484	10	Elvas	1331	225	1
Lisboa I	665	451	135	Porto	1367	219	10
Viseu	692	435	1	San Gabriel	1412	212	100
S. Salvador I	719	417	100	Coimbra	1448	207	1
C. Branco	827	362	1	Covilhã	1562	192	1

Short Waves (to Atlantic):
Lisboa 11925kHz 25.16m 10kW: 08.00-00.00.
6025kHz 49.79m 10kW: 08.00-00.00.

FM:	MHz	kW		MHz	kW
Lisboa I	95.7	12	Porto II	92.5	22
Porto I	96.7	22	Lousã II	89.3	22
Lousã I	87.9	40	Monchique II	91.5	2.5
Monchique	88.9	2.5	Azores I	97.9	0.25
Guarda I	94.7	0.5	Minhéu	94.9	1
Lisboa II	94.3	12			

NEWS: 06.05, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 22.00, 23.00, 23.50.
NETWORK II: 07.00-22.00 (FM st's II 07.00-00.00) Lisboa II 755kHz 397m 135kW — S. Salvador II 1061 kHz 282m 100kW+FM st's II.
Reg. Sce's: Porto: 10.10-11.00, 15.00-16.45 (Mon, Wed), 18.00-19.00; Coimbra 18.00-19.00; Faro 18.30-18.50; Funchal 11.30-14.00, 19.00-23.00; Azores 10.00-17.00; 18.45-22.00.
ANN: "Emissora Nacional, a Transmitir com . . . (regional te's)".

OVERSEAS SERVICE

Short Waves: 7×100kW; 1×50kW; 1×10kW (G.C: 08.40W/38.45N). All st's located at S. Gabriel — studios in Lisboa. All tr's directional.

kHz	m	kHz	m	kHz	m	kHz	m
4865	61.66	9740	30.80	11995	25.01	17740	16.91
6025	49.79	11840	25.34	15050	19.83	17835	16.82
6185	48.50	11875	25.26	15100	19.87	17880	16.78
7130	42.07	11915	25.18	15125	19.83	17895	16.76
9585	31.30	11925	25.16	15315	19.58	21495	13.96
9670	31.02	11930	25.15	15340	19.55	21700	13.82
9680	30.99	11935	25.13	15380	19.50	21735	13.80

PORTUGUESE
I=Timor; II=Macau; III=Goa; IV=S. Tomé/Angola/Mozambique; V=Guinea/Cape Verde/Brazil.

H. of tr.	Area	kHz	Beam	News
04.45-07.00	IV	21700/17740	142°	05.00,06.45
		15340	142°	
08.00-24.00	*)	6025/11925	274°	see Home Sce.
09.15-13.30	I	21735	66°	09.30,10.30
09.15-13.30	II	21700/17895	52°	
09.15-13.30	IV	21700/17880	142°	12.00,13.15
		15340	142°	
13.45-17.00	V	15125/21700	205°	14.00,16.15
15.15-17.00	III	17895/21495	81°	15.30,16.30
17.15-21.15	IV	17880/15340	142°	17.30,18.30,20.00
		21700	142°	

*) Home Sce. for Azores.

ANN: "Aqui Lisboa, Serviço Ultramarino da Emissora Nacional" — **INT-SIG:** T.S. and National Anthem.

V. by QSL-card. Recordings accepted.

INTERNATIONAL SERVICE ("Voice of the West")
ADDR: Radio Portugal, Rua do Quelhas 21, Lisboa.
Areas: V=Europe; VI=Australia/NZ; VII=Japan/Far East; VIII=So. Ea. Asia; IX=Africa; X=So. America; XI=No. America; XII=Canada; XIII=Brazil; XIV=USA/Canada/Portuguese Fishing Fleet.
Medium Waves Service:

H. of tr.	L	Area	kHz	N
19.45-20.30	Italian	Europe	1412	19.45
20.30-21.15	French	Europe	1412	20.30
21.15-22.00	German	Europe	1412	21.15
22.00-22.45	English	Europe	1412	22.00
22.00-22.45	French	Europe	755,1061	22.00
22.45-23.30	English	Europe	755,1061	22.45
23.30-00.15	German	Europe	755,1061	23.30

Short Wave Sce:

English	Area	kHz	Beam
07.30-08.15	VI	17880	66°
	VI	21495	66°
08.15-09.00	VII	17880	66°
		21495	66°
13.45-14.30	VIII	17895	81°
		21495	81°
18.15-19.45	IX	17880	142°
		21495	205°
20.45-21.30	V	6025,	66°
02.00-02.45	XI	6025	294°
03.00-03.45	XII	11840	316°
03.45-04.30	XIV	6025	310°
03.45-04.30	XIV	9680	310°
		11935	310°
French			
07.00-07.45	V	6025	50°
		6185,	50°
17.30-18.15	IX	17880	142°
		21495	205°
18.30-19.15	V	6025	66°
02.15-03.00	XII	11840	316°
German			
20.00-20.45	V	6025,	66°

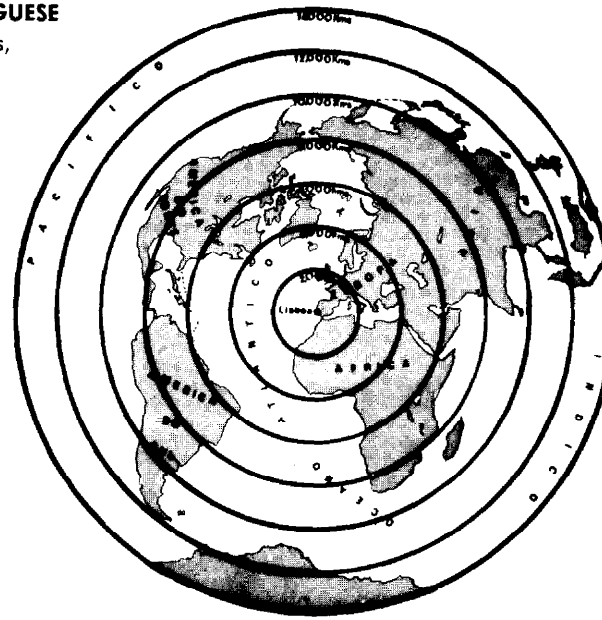
Italian	Area	kHz	Beam
19.15-20.00	V	6025,	66°
Portuguese			
04.45-07.00	V	6025	50°
		6185,	50°
18.00-21.00	V	9740	66°
21.30-01.00	XIII	9585	215°
		11840	215°
		15315	215°
00.00-02.00	XIV	6025	294°
		11935	294°
		9680	294°
02.45-03.45	XIV	6025	310°
		11935	310°
		9680	310°
Spanish			
01.00-01.45	X	9585	215°
		11840	215°
		15315	215°
Konkani			
14.30-15.15	VIII	17895	81°
		21495	81°

NEWS: English: 07.30, 08.15, 14.15, 18.15, 20.45, 02.00, 03.00, 03.45, 04.00. **French:** 07.00, 17.30, 18.30, 02.15. **German:** 20.00. **Italian:** 19.15. **Konkani:** 14.45. **Spanish:** 01.00.
DX-Prgr: In English: Every Mon 07.45, 08.30, 13.45, 18.30, 21.00, 23.00, 23.15, 02.15, 03.15, 04.00. In German: 1st and 3rd Fri: 20.15, 23.45.
ANN: E: "This is R. Portugal speaking to you from Lisbon". F: "Ici R. Portugal qui vous parle de Lisbonne". Sp: "Esta es R. Portugal que habla desde Lisboa". I: "Qui R. Portogallo che vi parla da Lisbona". G: "Hier spricht R. Portugal aus Lissabon". Konkanin: "Lisboa xarantlo Radio".
INT-SIG: Signature tune of foreign language broadc. is the opening bars of the Fifth Symphony by Beethoven. Closes with National Anthem — **V.** by special QSL-card. Recordings accepted — **PUB:** R. Portugal Listeners' Magazine, quarterly (in each language) free of charge. **ALF:** Esc. 100,-.

R. UNIVERSIDADE (Gov, Ministry of Nat. Education)
ADDR: R. D. Estefânia 14, Lisboa. **Te:** 41884.
L.P: Dir: D. A .Rui Gonçalves Pereira.
HOME SCE: Cultural and informative prgrs. mainly: D 18.10-18.45 on 665kHz (Lisbon I); Sun 08.00-09.50 on 755kHz (Lisbon II), 18.10-18.35 on 665kHz (Lisbon I).
ANN: "Radio Universidade, estudios do Centro Universitário de Lisboa, a transmitir por intermédio dos

RADIO PORTUGAL

broadcasts daily in seven languages
ENGLISH, FRENCH, GERMAN, ITALIAN
KONKANIM, SPANISH AND PORTUGUESE
offering you News and Press Reviews, Folksongs and light music, programs about the people and their language and the special **DX FORUM**



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Write for a free copy of
THE LISTENERS' MAGAZINE
to Rua do Quelhas, 21, Lisbon.

Emissores da Emissora Nacional" — **INT-SIG:** Opens with "Gaudeamus Igitur" and closes with the "Marcha de Mocidade Portuguesa" — **V.** by QSL-card. Recordings accepted — **PUB:** Monthly bulletin free.

RADIO RENASCENCA (Rlg, Catholic)
ADDR: Emissora Católica Portuguesa, Rua Capelo 5, Lisbon. **Te:** 30172 — **L.P:** Dir: M. Lopes da Cruz. Dir. Tec: Eng. B. Machado. Dir. Prgr: C. Pimentel.
STATIONS: Lisboa CSB3 1286kHz 233.3m 2.5kW — CSB52 6155kHz 48.74m 3kW (G.C: 09.12W/38.45N) — Porto CSB30 1169kHz 256.6m 10kW.
FM: Lisboa 93.2MHz 18kW — Valongo 93.7MHz 10kW — Lousa 91.7MHz 25kW — Muro 90.4MHz 12kW — Monchique 98.6MHz 6kW — Bornes 89.6MHz 5kW — Marofa 94.2MHz 6kW — Gardunha 99.5MHz 1kW — Portalegre 95.3MHz 1kW — Mendro 96.5MHz 6kW — Foia 98.6MHz 6kW — S. Miguel 89.6MHz 1kW.
HOME SCE: 07.00-02.00 — **N:** 08.25, 12.45, 20.30.
ANN: "R. Renascenca, Emissora Católica Portuguesa".
INT-SIG: Gong. Prgr's open with a religious choir.
V. by QSL-card.

RADIO CLUBE PORTUGUES (Comm.)
(Sociedade Anónima Cooperativa de Responsabilidade Lda.).
ADDR: Central Office: Rua Sampaio e Pina 26, Lisboa 1.
Cable: Radioclube. **Te:** 682071. **Telex:** 01596. No. Branch: Delegação do Norte, Rua de Ceuta 53, Porto. **Te:** 23863.
Telex: 02742 — **L.P:** Gen. Dir: J. Botelho Moniz. Dir. Prgr: A. Jorge. Dir. Tec: M. Menezes. Dir. Insp: A. Moita de Deus. Head, No. Branch: J. B. Moniz.

STATIONS:		**kHz**	**m**	**kW**	**h. of tr.**
Miramar	CSB9	782	383.6	100	07.00-04.00
Lisboa	CSB2	1034	290.1	50	24h
Lisboa	CSB51	6080	49.34	10	24h

FM Network: 07.00-04.00 Lisboa 97.4MHz, Porto 97.7 MHz, Foia 88.1MHz, Alentejo 92.0MHz, Portalegre 98.9MHz, Lousa 90.8MHz, Guarda 96.1MHz, Bornes 91.9MHz (all 3.5kW).
N: 00.00, 01.00, 03.00, 05.00, 06.00, 07.00. 08.00, 09.00, 11.00, 13.00, 15.00, 17.00, 19.00, 20.00, 21.00, 22.00, 23.00 — **Stereophonic Prgr's:** W 11.00-13.00, 22.00-23.00, 00.00-02.00; Sun 17.00-19.00 — **ANN:** "R. Clube Português" — **INT-SIG:** Gong — **V.** by QSL-card. Rec. acc. AD: 15% of broadc. time.

EMISSORAS ASSOCIADOS DE LISBOA (Comm.)
ADDR: Rua de Campolide 27, Lisboa 1. **Te:** 683450.
Studios: 1) R. Voz de Lisboa, Ave. Elias Garcia 162. 2) Clube Radiofonico de Portugal, Rua Carlo Mardel 5, Lisboa 1. 3) R. Graça: Rua Verónica 126, Lisboa 2. 4) R. Peninsular, Lisboa 1.
STATIONS: CSB4 1594kHz 188m 10kW — **FM:** CSB266 99.4MHz 1kW.
HOME SCE: D 07.00-02.00. **N:** 12.20, 20.30 — **ANN:** "CSB4, Estação de Emissoras Associados de Lisboa".
INT-SIG: String chords (guitar) — **V.** by QSL-card.
FI: Priv. (4 partners).

EMISSORES DO NORTE REUNIDOS (Comm.)
ADDR: R. D. João IV 960, Porto. **Te:** 30781.
STATIONS: CSB5 1578kHz 190.7m 10kW.
FM: CSB84 91.31MHz 3kW.
HOME SCE: 07.00-03.00. **N:** 13.00, 23.45 — **ANN:** "Aqui Porto Emissores do Norte Reunidos a transmitir . . . ".
V. by QSL-card or letter. Recordings accepted.

RADIO RIBATEJO (Comm.)
ADDR: Av. 5 de Outubro, 34, Santarém. **Te:** 25363.
L.P: Dir. Gen: J. Varela Santos. Dir. Tec: A. V. Santos.
STATION: CSB32 1322kHz 226.9m 0,5kW.
HOME SCE: 09.00-20.30; **N:** 13.00, 20.00 (rel. R. Nacional).
INT-SIG: Gong — **V.** by QSL-card and turistic guiders of the Province of Ribatejo. Re. in P, Sp, F, E.

R. ALTO DOURO (Priv.)
ADDR: Av. Sebastiaõ Ramieres Regina, Porto. **Te:** 200.
L.P: St. Mgr: C. Ruella — **STATION:** CSB33 800kHz 375m 1kW — **HOME SCE:** 10.00-13.00, 17.00-19.00.

ROMANIA (Socialist Rep.)

L.T: GMT+2h — **Pr.L:** Rumanian — **EC:** a/c 50 (no).

RADIODIFUZIUNEA SI TELEVIZIUNEA ROMANA
ADDR: P.O. Box 111, Bucuresti. **Te:** 162080. **Cable:** Radioteleviziunea. **Telex:** 251 — **L.P:** Pres: Valerin Pop. Vice Pres: G. Ionescu, I. Grigorescu, O. Paler, B. Ionită. Head Foreign Rel: D. Natu.

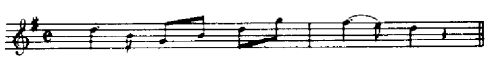
STATIONS:

	kHz	m	kW
Brasov	155	1935	1200
Bucuresti	557	538.6	5
Timisoara II	629	476.9	30
Timisoara I	755	397.4	135
Bucuresti I	854	351.3	150
Miercurea	908	330.4	7
Bacău	1052	285.2	50
Cluj	1151	260.6	50
Constanta	1313	228.5	2/1
Craiova	1313	228.5	2/3
Oradea	1430	209.8	6
Craiova	1457	205.9	20
Brasov	1484	202.2	2
Baia Mare	1484	202.2	2
Resita	1484	202.2	2
Sibiu	1484	202.2	2
Tg. Mures	1484	202.2	2

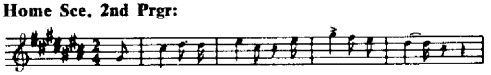
HOME SCE: 1st Prgr: On 155kHz: 03.00-03.00 (Fri, break at 01.00-03.00); On 557kHz: 03.00-01.00: On FM: 66.74/70.04/72.74MHz: 03.00 (Sun 04.00)-14.00 (Sun 13.00). **N:** W 03.00, 04.00, 05.00, 08.00, 09.00, 11.00, 14.00, 15.00, 16.00, 18.00, 20.00, 22.00, 24.00, 02.00; Sun 04.00, 05.00, 06.00, 09.00, 11.00, 14.00, 18.00, 20.00, 22.00, 24.00, 02.00 — **Wrp:** 03.00-20.00 — **Suggestions for drivers:** 04.00, 05.00, 14.00 (Sun 05.00).
2nd Prgr: W 04.00-23.00 on 854/1313/1484/1430kHz+FM 71.18/72.08/68.36MHz; 05.00-05.30 on 755kHz; 05.00-15.00 on 1457kHz, 05.30-10.00 on 1052kHz; 05.45-10.00 on 755/908/1151kHz; 10.45-12.30 on 755kHz, 12.00-14.00 on 1052kHz; 11.30-12.30 on 908/1151kHz, 13.00-14.00 on 755kHz; 14.15-15.00 on 755kHz; 17.00 (Sun 18.00)-23.00 on 629/1484kHz, 17.00-23.00 on 908/1151/1457kHz, 17.00 (Fri 21.00)-23.00 on 1052kHz.
Sun: 04.00-23.00 on 854/1313/1484/1430kHz+FM 71.18/72.08/68.36MHz; 04.00-05.00 on 908/1151kHz; 04.00-05.30 on 755kHz; 04.00-07.00 on 1457kHz, 07.00-08.00 on 755kHz, 07.30-23.00 on 1457kHz, 06.00-14.00 on 1052 kHz, 07.30-08.00 on 908/1151kHz, 09.00-14.30 on 755/908/1151kHz, 15.15-17.00 on 755kHz, 15.15-23.00 on 908/1151kHz; 18.00-23.00 on 629/1052kHz.
N: W: 04.05, 05.00, 10.00, 12.00, 14.00, 19.00, 21.00, 22.55; Sun: 12.00, 17.00, 21.00, 22.55.
Suggestions for drivers: 05.00 (Sun 05.30).
3rd Prgr: 14.00 (Sun 13.00)-22.00 on 66.74/70.04/72.74 MHz.
N: W: 16.00; Sun 17.30.

REGIONAL SERVICES

R. Bucuresti (755/908/1151kHz): Hungarian: W 05.30-05.45, 14.00-14.15, 16.45-17.00 (not on 755kHz) (Sun 08.00-08.20, 14.30-15.15). German: 05.45-05.00 (only on 755kHz), 12.30-13.00 on 755/908/1151kHz (Sun 08.20-09.00 on 755/908/1151kHz).
R. Cluj (on 908/1151kHz): Romanian: 04.15-05.00, 10.00-10.30, 13.00-14.00 (Sun 05.00-05.45), Hungarian: 05.00-05.30, 10.30-11.00 (Mon 12.00), 16.00-16.45 (Sun 05.45-06.30).
R. Tg. Mures (on 908/1151kHz): Romanian: 03.00-03.30, 15.00-16.00. Hungarian: 03.30-04.15, 11.00-11.30, 14.15-15.00; (Sun 06.30-07.30).
R. Timisoara (on 755kHz): Romanian: 04.00-04.15, 10.00-10.15 (Thurs 10.00-11.00), 15.30-17.00 (Sun 05.30-05.45). German: 04.15-04.30, 15.00-15.30 (Sun 05.45-06.00). Serbian: 04.30-04.45, 10.15-10.45 (Sun 06.00-07.00).
R. Craiova (on 1457kHz): 04.30 05.00, 15.00-17.00 (Sun 07.00-07.30).
R. Iasi (on 1052kHz): 03.30-05.30, 10.00-12.00, 14.00-17.00 (Fri 14.00-21.00 (Sun 04.00-06.00, 14.00-18.00).
ANN: Opening: 1st Prgr: "Aici Bucuresti. Stimati ascultători, bună dimineata. Incepem programul zilei pe statiile de radio cu lungimile de undă de . . ." 2nd Prgr: "Aici Bucuresti. Transmitem programul doi pe statiile de radio cu lungimile de undă de . . ." 3rd Prgr: "Aici Bucuresti. Transmitem programul trei pe statiile de radio cu lungimile de undă de . . ."
INT-SIG: Home Sce, 1st and 3rd Prgr:



Home Sce, 2nd Prgr:



"How to Listen to the World"

the book YOU need

FOREIGN SERVICE

STATIONS (G.C: 26.06E/44.25N). **Powers:** 755kHz 130 kW; Shortwaves use 15/18/25/50 or 120kW.

kHz	m	kHz	m	kHz	m	kHz	m
755	397.3	7195	41.70	11790	25.45	15380	19.50
5980	50.17	7225	41.52	11810	25.40	17730	16.92
6095	49.22	9510	31.55	11940	25.13	17760	16.89
6150	48.78	9570	31.35	15250	19.67	17830	16.83
6190	48.47	9590	31.28	15285	19.63	17850	16.81
7110	42.19	9690	30.96				

TO EUROPE

English	kHz
13.00-13.30	15250,17850
19.30-20.30	7195,9690
21.00-21.30	5980,7225
French	
11.30-12.00	11810,15250, 17830
18.30-19.00	6095,7110, 7195,9690
19.30-20.00	6095,7110
20.30-21.00	5980,6095
German	
12.00-12.30	11810,15250
18.00-18.30	6095,7195
20.30-21.30	755
22.00-22.30	5980,6095, 7195,7225
Greek	
12.00-12.30	7195,9590
18.00-18.30	755
20.00-20.30	755
Italian	
15.30-16.00	7225,9690
18.00-18.30	5980,7225
19.00-19.30	755
21.30-22.00	755
Portuguese	
21.30-22.00	7195,9570, 9690,11940
Romanian	
20.00-20.30	6095,7110
22.00-23.00	755
Serbian	
17.00-17.30	755
19.30-20.00	755
Spanish	
11.30-12.00	15285,17850
19.00-19.30	9690,11940
20.30-21.30	7195,9690

TO AFRICA

Arabic	kHz
12.30-13.00	17850
16.00-17.00	11810,11940
English	
11.00-11.30	11810,15250, 17850
French	
11.30-12.00	17760
17.30-18.00	11810,11940, 15380,17730

TO NEAR EAST

Arabic	kHz
12.30-13.00	15250
16.00-17.00	7225,9590
Turkish	
17.30-18.00	755
19.00-19.30	5980,6190

TO ASIA

English	kHz
15.00-15.30	15250
Persian	
14.30-15.00	9590,11940, 15250
17.00-17.30	7225,9510, 9590,11810

TO PACIFIC

English	kHz
06.45-07.15	15250.17850

TO NORTH AMERICA

English	kHz
01.30-02.30 } 03.00-03.30 } 04.30-05.00 }	6150,6190, 9510,9570, 9690,11810, 11940
Romanian	
23.00-00.00	6150,9510, 9570,11940
03.30-04.00	6150,6190, 9510,9570, 9690,11810, 11940
Yiddish	
02.30-03.00	6150,6190, 9510,9570, 9690.11810, 11940

TO LATIN AMERICA

Portuguese	kHz
22.30-23.00	9510,9570, 11810,11940
01.00-01.30	6150,6190, 9510,9570, 9690,11810, 11940
Spanish	
00.00-01.00 } 04.00-04.30 }	6150,6190 9510,9570, 9690,11810, 11940

ANN: E: "This is Bucharest calling. You are tuned to Radio Bucharest. This broadcast is coming to you from Radio Bucharest". F: "Ici Bucarest. C'est Bucarest qui vous parle. Vous êtes à l'écoute de Radio Bucarest". G: "Hier spricht Bukarest. Hier ist Bukarest". I: "Parla Bucarest. E. Bucarest che vi parla. Qui é Radio Bucarest". Sp: "Aqui Radio Bucarest. Habla Bucarest". P: "Aqui Bucareste. Fala Bucareste. Sintonizam Radio Bucareste".
V. by QSL-card. **PUB:** Radio-TV.

SPAIN

L.T: GMT+1h — **Pr.L:** Spanish — **EC:** a/c 50 (varies).

RADIO NACIONAL DE ESPANA (Gov.)
ADDR: General Yagüe 1, Madrid 20. **Te:** 2794600. **Telex:** 7366. **Cable:** Radiogen — **L.P:** Dir. Gen. Broadc. TV: J. Aparicio Bernal. Dir. RNE Nat. Network: J. M. Riancho Sánchez. Dir. Tec. and Engineering: A. Prieto de Arozarena. Chief Foreign Prgr. Sce: L. de Andres Frutos.

HOME SERVICE

	kHz	m	kW	h. of tr.
Oviedo	548	547	50	06.00-00.30
Madrid (Central)	584	513	100/200	24h
La Coruña	638	470	100	07.00-00.30
Sevilla	683	439	125/250	24h

	kHz	m	kW	h. of tr.
Barcelona	737	407	125/250	24h
San Sebastian	773	388	20	06.00-00.30
Murcia	854	351	125	06.00-00.30
Madrid*	989	303	50	06.00-01.00
Malaga*	1007	298	10	06.50-00.15
Valencia*	1079	278	25	06.30-01.00
Barcelona*	1178	255	20	06.00-01.00
Cuenca*	1187	253	5	06.45-00.15
Sevilla*	1187	253	5	06.00-00.15
Madrid (3rd Prgr.)	1223	245	50	06.00-23.00
Zaragoza	1313	228	10	06.00-00.30

*) R. Peninsular.

SECOND PRGR. (Musical Prgr.): 07.00-24.00

	MHz		MHz
*Salamanca	88.1	§Cuenca	93.0
*Aitana[1]	**88.5**	*La Coruña	93.3
*Alfabia[2]	**89.7**	*Sollube	93.3
*Jaizquibel[3]	**90.0**	*Sevilla	94.2
*Lujar[7]	90.3	Sierra de Aramo Tolosa[1]	**94.2** 94.8
*Santander	90.3	§Torrelavega[10]	97.9
†Bilbao	90.5	†Málaga	98.1
*Guadalcanal[5]	**90.6**	†Murcia	98.1
*La Muela[6]	90.9	*Santiago	**98.1**
*Valencia	92.0	§Beasain[1]	98.4
*Sierra Aramo[8]	92.3	*Navacerrada[11]	**98.7**
§Alcoy[1]	92.3	§Eibar[3]	98.8
*Madrid	92.4	§León	99.3
§Cartagena[4]	92.7	§Mieres[8]	99.6
§Játiva	92.7		
*Barcelona	**93.0**		

THIRD PRGR. (Cultural): 06.00-23.00

	MHz		MHz
*Santiago	89.7	§Beasain[3]	94.4
†Oviedo	90.3	*Navacerrada[11]	95.8
§Alcoy[1]	91.1	†Murcia	96.0
*Salamanca	91.4	*Le Muela[6]	96.3
*Madrid	91.5	§León	98.4
§Cartagena	91.5	*Barcelona	**98.5**
§Játiva	91.5	§Mieres[8]	98.8
*Jaizquibel[3]	92.1	*Santander	98.5
§Cuenca	92.0	§Torrelavega[10]	99.5
Tolosa[3]	94.0	*Sevilla	98.8
*Lujar[7]	94.2	†Málaga	99.2
§Eibar[3]	95.9	†Archanda	99.2
*Valencia	95.1	*Aitana[1]	99.7
*Sollube[9]	95.3		

1) Alicante; 2) Mallorca; 3) Guipúzcoa; 4) Murcia; 5) Sevilla; 6) Zaragoza; 7) Granada; 8) Oviedo; 9) Vizcaya; 10) Santander; 11) Madrid.

*) 1kW or more; †) 0.25kW; §) 0.05kW.

Frequencies in bold types 12kW exc. Barcelona (93.0 and 98.5) 15kW, Madrid (98.7) 30kW.

FOREIGN SERVICE

Madrid-Arganda (G.C: 03.31W/40.18N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
6130	48.94	100	9370	32.01	100	11710	25.62	100
6140	48.86	100	9570	31.35	100	15195	19.74	100
7105	42.22	100	9760	30.74	20/50	15420	19.45	100
9360	32.05	20/50						

TO EUROPE

Spanish	kHz
13.00-22.00	6140,7105, 9570
To Eastern Europe	
05.30-08.00	9760
11.00-13.30	9760
16.30-21.00	9360
Spanish	
18.00-22.45	9370
15.00-22.45 (Sun)	9370
To Canary Islands	
22.00-24.00	9760

TO MOROCCO

French/Arabe	
07.30-08.30	6130
11.45-12.45	6130

TO GUINEA

Spanish	kHz
05.30-07.30	15420
17.30*-21.30	15420

*) Sun 15.00.

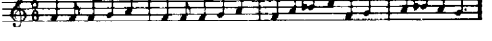
TO USA/CANADA

English	
01.00-01.45	6130,9760
02.00-02.45	6130,9760
03.00-03.45	6130,9760

TO LATIN AMERICA

Spanish	
23.00-05.00	9360,9570, 11710,15420

ANN: E: "This is the Voice of Spain broadc. from the Spanish National Radio" — **INT-SIG:** Gong and the following tune:



V. the following stations have their own QSL-cards: 584 (Madrid), 737 (Barcelona), 683 (Sevilla), 854 (Murcia), 638 (La Coruña), 548 (Oviedo), 773kHz (San Sebastian). Reception reports to be sent direct to these stations. In order to obtain a QSL-card it is preferable to report a regional prgr. **Reg. Prgr's:** 06.05-07.00, 09.05-10.00, 12.05-13.00, 17.30-18.00, 19.25-20.00, 20.05-20.30 and 23.10-24.00.

RED DE EMIORAS DEL MOVIMIENTO (R.E.M.)

The Red de Emisoras del Movimiento belongs to the Secretaria General del Movimiento.
ADDR: Generalisimo 142, Madrid. **Te:** 2350640.

STATIONS:	Call	kHz	m	kW	h. of tr.
La Voz de Valladolid	EFE- 1	1475	203.4	2	07.00-23.30
La Voz de Palencia	EFE- 4	836	358.9	2	07.00-23.00
La Voz de Léon	EFE- 5	1133	264.8	2	07.00-23.00
La Voz de Extremadura	EFE- 6	1133	264.8	5	07.00-23.00
La Voz de Alicante	EFE- 8	1570	191.6	5	06.45-23.30
La Voz de Alava	EFE-10	1570	191.6	2	07.00-15.30
La Voz de Madrid	EFE-14	1097	273.5	20	07.25-04.00
La Voz de Levante	EFE-17	1570	191.6	5	07.00-23.00
La Voz de Castellon	EFE-19	1133	264.8	2	07.00-23.00
La Voz del Principado de Asturias	EFE-22	1133	264.8	5	07.00-01.00
La Voz de Guipuzcoa	EFE-23	1097	273.5	5	07.00-23.00
La Voz de Cantabria	EFE-25	1570	191.6	2	07.00-24.00
La Voz de Vigo	EFE-31	1133	264.8	5	07.00-24.00
La Voz del Mediterraneo	EFE-33	1133	264.8	5	07.00-24.00
La Voz de Andalucia	EFE-58	1570	191.6	5	07.00-23.30
La Vos de Navarra	EFE-57	1133	264.8	5	07.00-23.00

Addresses:
EFE- 1: Angustias 1, Valladolid
EFE- 4: Becerro de Bengoa s/n, Palencia
EFE- 5: Ordoño II 28, León
EFE- 6: General Primo de Rivera 1, Cáceres
EFE- 8: Angel Lozano 14, Alicante
EFE-10: Calvo Sotelo 34, Vitoria
EFE-14: Ayala 15, Madrid 1
EFE-17: Pascuál y Genis 27, Valencia
EFE-19: Av. Cermuda y Valasco s/n, Castellon
EFE-22: Asturias 9, Oviedo
EFE-23: Victor Pradera 12, San Sebastian
EFE-25: Pasaje del Arcillero 2, Santander
EFE-31: Garcia Barbon 3, Vigo (Pontevedra)
EFE-33: Hermanos Landa 21, Tarragona
EFE-57: Navarro Villoslada 17, Pamplona
EFE-58: Buen Pastor 4, Córdoba

CADENA AZUL DE RADIODIFUSION (C.A.R.)

The Cadena Azul de Radiodifusión belongs to the Delegación Nacional de Juventudes.
ADDR: Reina 33, Madrid-4. **Te:** 2312404. **Cable:** Cadenazul — **L.P:** Dir. Gen: E. Pérez de Lama. Subdir. Gen: E. Fernández Vázquez. Secr. Gen: E. Angel Ruiz Butrón. Ing. Jefe: P. Ampuero-Martín. Dir. Foreign Rel: Raúl Torres Herreros. Adm. Gen: A. Martínez Ramírez.

STATIONS. Radio Juventud de . . . . . .

Medium Waves	Call	kHz	m	kW	H. of tr.
1) Soria	EFJ-2	1570	191.1	2	09.00-23.00
2) Cádiz	EFJ-5	1097	273.5	2	08.00-24.00
3) La Coruña	EFJ-11	1385	216.6	2	08.00-01.00
4) Barcelona	EFJ-15	1025	292.6	6	06.00-02.00
5) Murcia	EFJ-19	1133	264.8	2	07.00-02.00
6) Albacete	EFJ-23	1133	264.8	2	08.30-22.30
7) Almería	EFJ-25	1133	264.8	2	08.00-24.00
8) Ponferrada	EFJ-29	1133	264.8	2	09.00-23.00
9) Béjar	EFJ-38	1570	191.1	2	10.00-21.30
10) Asturias	EFJ-41	1097	273.5	2	09.00-24.00
11) Bilbao	EFJ-43	1133	264.8	2	07.00-01.00
12) Palma M.	EFJ-45	1385	216.6	2	08.00-01.00
13) Zaragoza	EFJ-46	1133	264.8	5	07.00-01.00
14) La Rioja	EFJ-50	1133	264.8	2	08.00-23.00
15) Huelva	EFJ-51	836	358-9	5	08.00-01.00
16) Burgos	EFJ-54	1133	264.8	2	09.00-23.00
17) Málaga	EFJ-56	1133	264.8	5	07.00-02.00

FM: All st's 0.25kW exc. EFJ-1=1kW.

	Call	MHz			Call	MHz	
España (Madrid)	EFJ-1	89.7	a	Barbastro	EFJ-21	90.0	k
				Albacete	EFJ-23	91.8	d
Soria	EFJ-2	89.7	b	Almería	EFJ-25	88.9	d
Igualada	EFJ-4	89.4	c	Cartagena	EFJ-26	89.0	m
Cádiz	EFJ-5	95.1	d	Ponferrada	EFJ-29	95.6	n
Almansa	EFJ-6	91.8	e	Béjar	EFJ-38	99.9	p
Plasencia	EFJ-7	88.8	f	Eibar	EFJ-42	88.8	r
La Coruña	EFJ-11	96.9	g	Asturias	EFJ-41	88.8	q
Sabadell	EFJ-12	89.1	h	Bilbao	EFJ-43	96.9	g
Barcelona	EFJ-15	89.7	1	Palma M.	EFJ-45	88.8	m
Murcia	EFJ-19	92.1	d	Zaragoza	EFJ-46	94.5	d

	Call	MHz			Call	MHz	
La Rioja	EFJ-50	88.8	m	Miranda	EFJ-53	89.7	g
Huelva	EFJ-51	95.0	n	Málaga	EFJ-56	92.5	*
Aranda	EFJ-52	90.0	d	Morón	EFJ-61	87.9	u
				Burgos	EFJ-63	93.6	g

a) 08.00-23.00; b) 09.00-22.00; c) 06.30-21.30; d) 06.00-23.00; e) 08.00-13.00 and 17.00-21.00; f) 08.00-15.00 and 18.00-23.00; g) 06.00-24.00; h) 09.30-21.30; i) 07.00-01.00; k) 11.00-14.00, 18.30-23.00; m) 07.00-23.00; n) 06.00-01.00; c) 11.00-14.00, 18.30-21.30; p) 08.00-22.00; q) 06.00-23.30; r) 10.00-23.00; s) 09.30-22.00; t) 07.00-01.00; u) 07.00-22.00.

Addresses:

1) Aguirre 3, Soria
2) López Pinto 5, Cádiz
3) Maseo Méndez Núñez s/n, La Coruña
4) Vía Augusta 17-19, Barcelona-6
5) Avda Alféreces Provisionales 8, Murcia
6) Tasifonte Gallego 6, Albacete
7) Pl. San Fernando 4, Almería
8) Ave María 9, Ponferrada (León)
9) Arca Madre 1, Béjar (Salamanca)
10) Dorado 11, Sama de Langreo (Asturias)
11) Banco de España 3, Bilbao
12) San Bartolomé 23, Palma de Mallorca
13) Avda Calvo Sotelo 7, Zaragoza
14) Avda Numancia 34, Calahorra (Logroño)
15) Gran Vía 1, Huelva
16) San Francisco s/n, Aranda de Duero (Burgos)
17) Alameda de Colón 32, Málaga

ANN: Nat Sce: "Transmite la Cadena Azul de Radiodifusión". Local Sce: "Transmite R. Juventud de . . . . Emisora de la Cadena Azul de Radiodifusión" — **INT-SIG:** Xylophone — **V**, by letter — **FI:** By own recourses — **PUB:** "Car" (monthly).

SOCIEDAD ESPANOLA DE RADIODIFUSION (*Comm.*)
ADDR: Av. de José Antonio 32, Madrid 13. **Cable:** SER. **Telex:** 27638 SER-E. **Te:** 2221181 — **L.P:** Dir. Gen: E. Fontán. Dir. Gen. Adjoint: R. Varela. Dir. Tec: J. Galindo. Dir. Prgr: M. R. Cano — Reg. Sce: Barcelona-10: Caspe 6; Dir: M. Tarin — Valencia-2: D. Juan de Austria 3; Dir: V. Gomez Torre — Sevilla: R. Gonzáles Abreu 4; Dir: F. Machado — Zaragoza: Av. Marina Moreno 21; Dir: J. Muro.

Main Stations:	Call	kHz	kW	H. of tr.
1) R. Alcira	EA154	1520	2	06.30-24.00
2) R. Algeciras	EAJ55	1412	2	06.50-24.00
3) R. Alicante	EAJ31	1520	2	05.00-02.00
4) R. Barcelona	EAJ1	827	5	24h
5) R. Bilbáo	EAJ28	1412	2	06.55-02.00
6) R. Cádiz	EAJ59	1475	2	06.30-00.30
7) R. Extremadura	EAJ52	1106	2	06.45-23.00
8) R. Ceuta	EAJ46	1106	2	11.00-23.55
9) R. Galicia	EAJ4	1412	2	06.00-23.00
10) R. Madrid	EAJ7	800	20	24h
11) R. Mallorca	EAJ13	1475	2	06.00-24.00
12) R. Reus	EAJ11	1475	2	06.00-00.15
13) R. San Sebastián	EAJ8	1025	5	06.00-24.00
14) R. Sevilla	EAJ5	809	5	06.00-02.00
15) R. Valencia	EAJ3	1259	5	06.00-02.30
Associated stations:				
16) R. Albacete	EAJ44	1520	2	06.55-23.00
17) R. Alcoy	EAJ12	1106	2	06.50-23.30
18) R. Almeria	EAJ60	1475	2	06.40-23.30
19) R. Antequera	EAJ26	1106	2	06.30-24.00
20) R. Asturias	EAJ19	1475	2	06.30-23.00
21) R. Castellón	EAJ14	1412	2	06.45-01.00
22) R. Castilla	EAJ27	1412	2	06.55-23.00
23) R. Ciudad Real	EAJ65	1412	2	06.45-23.00
24) R. Coruña	EAJ41	1106	2	06.45-00.45
25) R. Gandia	EAJ23	1475	2	06.40-23.55
26) R. Gerona	EAJ38	1520	2	06.55-24.00
27) R. Gijón	EAJ34	1412	2	06.45-23.10
28) R. Granada	EAJ16	1412	2	06.40-01.00
29) R. Huesca	EAJ22	1106	2	06.45-23.00
30) R. Jaén	EAJ61	1520	2	06.00-24.00
31) R. Jerez	EAJ58	1520	2	06.00-01.00
32) R. Las Palmas	EAJ50	953	2	07.00-01.00
33) R. León	EAJ63	1106	2	06.45-00.15
34) R. Lérida	EAJ42	1520	2	06.45-23.00
35) R. Lugo	EAJ68	1520	2	06.45-23.00
36) R. Manresa	EAJ51	1106	2	06.00-00.30
38) R. Murcia	EAJ17	1412	2	06.00-00.45
39) R. Orense	EAJ57	1106	2	06.50-11.00
40) R. Panadés	EAJ35	1106	2	06.45-23.55
41) R. Pontevedra	EAJ40	1475	2	06.45-23.30
42) R. Requeté	EAJ6	1412	2	06.45-00.30
43) R. Rioja	EAJ18	1475	2	06.55-01.00
44) R. Salamanca	EAJ56	1106	2	06.55-23.00
45) R. Santander	EAJ32	1475	2	06.30-23.30
46) R. Segovia	EAJ64	1412	2	06.45-23.00
46a)R. Tarassa	EAJ25	1412.	2	06.55-23.45
47) R. Toledo	EAJ49	1520	2	07.00-23.00
48) R. Valladolid	EAJ47	1259	2	06.50-00.20
49) R. Vigo	EAJ48	1520	2	06.45-24.00
50) R. Vitoria	EAJ62	1106	2	06.55-23.00
51) R. Zamora	EAJ72	1475	2	06.45-23.15
52) R. Zaragoza	EAJ101	872	20	06.00-04.00

H. of tr: 09.00-23.00 for all st's.
FM st's: All st's 1kW exc. 10) (10kW) and 49) (2kW).
Main stations:

MHz	MHz	MHz	MHz	MHz
1) 95.7	4) 93.9	7) 96.9	11) 96.6	14) 97.2
2) 95.7	5) 89.5	9) 95.0	12) 89.7	15) 89.7
3) 88.5	6) 92.2	10) 93.9	13) 97.2	

Associated stations:

16) 89.4	23) 92.1	30) 93.3	40) 96.3	46) 96.6
17) 96.3	24) 89.4	31) 98.5	41) 89.1	47) 90.9
18) 93.6	25) 96.6	35) 91.8	42) 92.1	49) 99.2
19) 96.3	26) 90.0	36) 95.1	43) 91.8	50) 92.5
20) 90.3	27) 90.0	38) 91.2	44) 96.9	51) 89.9
21) 95.7	28) 95.4	39) 87.6	45) 91.2	52) 95.4
22) 89.1	29) 93.3			

Addresses.

1) **R. Alcira,** Pl. del Caudillo 51, Alcira (Valencia).
2) **R. Algeciras,** Ruiz Tagle 25, Algeciras (Cádiz).
3) **R. Alicante,** Pintor Velázquez 12, Alicante.
4) **R. Barcelona,** Caspe 6, Barcelona 10.
5) **R. Bilbao,** Rodríguez Arias 6, Bilbao 8.
6) **R. Cádiz,** José del Toro 10, Cádiz.
7) **R. Extremadura,** Teniente Coronel Yagüe 2, Badajoz.
8) **R. Céuta,** Alfau, 20 - Ceuta.
9) **R. Galicia,** P. de la Universidad 5, Santiago de Compostela (La Coruña).
10) **R. Madrid,** Avda. José Antonio 32, Madrid 13.
11) **R. Mallorca,** Paz 35, Palma de Mallorca.
12) **R. Reus,** Arrabal de Santa Ana 54, Reus.
13) **R. S. Sebastián.** Avda. de España 27, San Sebastian.
14) **R. Sevilla,** Rafael González Abreu 4, dpdo, Sevilla.
15) **R. Valencia,** D. Juan de Austria 3, Valencia.
16) **R. Albacete,** Mayor 63, Albacete.
17) **R. Alcoy,** Beato Nicolás Factor 2, Alcoy (Alicante).
18) **R. Almeria,** Arapiles 2, Almeria.
19) **R. Antequera.** Ramón y Cajal 41, Antequera.
20) **R. Asturias,** Asturias 19, Oviedo.
21) **R. Castellón,** Moyano 1, Castellon de la Plana.
22) **R. Castilla,** Conde de Jordana 1, Burgos.
23) **R. Ciudad Real,** Avda. de los Mártires 18, Ciudad Real.
24) **R. Coruña,** Pl. de Orense 3, La Coruña.
25) **R. Gandia,** San Pascual 15, Gandia (Valencia).
26) **R. Gerona,** Forsa 8, Gerona.
27) **R. Gijón,** Moros 37, bajo, Gijon.
28) **R. Granada,** Santa Paula 2, Granada.
29) **R. Huesca,** Coso Alto 55, Huesca.
30) **R. Jaén,** Bernabé Soriano 18, Jaen.
31) **R. Jerez,** Angustias 11, Jerez de la Frontera (Cádiz).
32) **R. Las Palmas,** Triana 134, bis, Las Palmas de Gran Canaria.
33) **R. León,** Villafranca 8, Leon.
34) **R. Lérida,** Carmen 26, Lerida.
35) **R. Lugo,** Pl. Angel Fernández Gómez 5, Lugo.
36) **R. Manresa,** Pl. del General Mola 3, Manresa (Barcelona).
37) **R. Melilla,** O'Donell 26, Melilla.
38) **R. Murcia,** Lucas 4, Murcia.
39) **R. Orense,** Tiendas 9 y 11, Orense.
40) **R. Panadés,** Rambla del Caudillo 10, Villanueva y Geltru (Barcelona).
41) **R. Pontevedra,** Peregrina 25 y 27, Pontevedra.
42) **R. Requeté,** Avda. de Franco 4, Pamplona.
43) **R. Rioja,** Avda de Portugal 12, Logroño.
44) **R. Salamanca,** Rosa 2 (Gran Vía), Salamanca.
45) **R. Santander,** Marcelino S. de Sautuola 4, Santander.
46) **R. Segovia,** San Augustín 5, Segovia.
46a) **R. Tarrasa,** San Pedro 38, Tarrasa (Barcelona).
47) **R. Toledo,** Navarro Ledesma 4, Toledo.
48) **R. Valladolid,** Montero Calvo 7, Valladolid.
49) **R. Vigo,** Príncipe 53, Vigo.
50) **R. Vitoria,** Postas 19, Vitoria.
51) **R. Zamora,** Avda. de Requejo 1, Zamora.
52) **R. Zaragoza,** Avda. de Marina Moreno 21, Zaragoza.

ANN: Nat. Sce: "Transmite la Sociedad Española de Radiodifusion". **Local Service:** "Transmite R. . . . de la Sociedad Española de Radiodifusion" — **INT-SIG:** Harp, piano — **V**, by letter or QSL card. Recordings accepted. **PUB:** "ONDAS" fortnightly).

CADENA DE ONDAS POPULARES ESPANOLAS

ADDR: Montesa 27, Madrid 6. **Te:** 2760527. **L.P:** Dir. Gen: F. J. Sacristan. Dir. Tec: J. de Acuña Muñoz.

STATIONS:	Call	kHz	kW	MHz	kW
Madrid	EAK- 1	1268	20	97.2	1
Sevilla	EAK- 2	1502	2	99.6	1
Burgos	EAK- 3	1502	2	95.4	1
Pamplona	EAK- 4	1502	2	87.9	1
Valencia	EAK- 5	1430	2	89.7	1
Zaragoza	EAK- 6	1394	2	97.8	1
Barcelona	EAK- 7	1430		99.3	1
Valladolid	EAK- 9	1430	2	89.4	1
Malaga	EAK-11	1430	2	89.7	1
Murcia	EAK-12	1502	2	89.7	1
Bilbao	EAK-13	1502	2	97.8	1
Huelva	EAK-14	1430	2	88.6	1
Lerida	EAK-15	1430	2	96.0	1
Jerez de la Frontera	EAK-17	1394	2		
Mallorca (Palma)	EAK-18	1268	2	97.5	1
Salamanca	EAK-19	1502	2	90.0	1
Badajoz	EAK-21	1394	2	89.1	1
Ciudad Real	EAK-22	1502	2	93.6	1
Puertollano (Ci. Real)	EAK-23	1430	2	97.5	1
Ibiza (Baleares)	EAK-24	1502	2	89.1	1
Leon	EAK-25	1430	2	93.3	1
Zamora	EAK-26	1394	2	94.0	1
Lorca (Murcia)	EAK-29	1430	2	97.5	1
Alicante	EAK-31	1394	2	95.4	1
Vigo	EAK-33	1394	2	87.8	1
Granada	EAK-39	1502	2	88.2	1
Jaen	EAK-40	1430	2	88.8	1
El Ferrol (Coruña)	EAK-43	1502	2	95.0	1
San Sebastian	EAK-44	1394	2	88.5	1
Albacete	EAK-46	1394	2	95.4	1
Astorga (Leon)	EAK-48	1394	2	87.6	1
Reus (Tarragona)	EAK-53	1394	2	89.7	1
Caceres	EAK-57	1430	2	88.6	1
Lugo	EAK-58	1430	2	90.0	1
Orense	EAK-59	1502	2	92.4	1
Loyola (Guipuzcoa)	EAK-66			99.8	1
Menorca (Cuidadela)	EAK-67	1430	2	90.0	1
Satander	EAK-68	1394	2	88.4	1
Almeria	EAK-69	1394	2	97.2	1
La Plana (Castellón)	EAK-78	1430	2	88.5	1
Figueras (Gerona)	EAK-82	1430	2	89.4	1
Cordoba	EAK-90	1394	2	87.9	1
Asturias (Aviles)	EAK-91	1502	2	89.1	1

Addresses:
EAK-2: Trajano 39, Sevilla.
EAK-3: Plaza de Alonso Martinez 2, Burgos.
EAK-4: Santo Domingo, Pamplona.
EAK-5: Pasaje Dr. Serra 2, Valencia 4. **V.** by QSL card.
EAK-6: Plaza de la Seo 6, Zaragoza.
EAK-12: Gonzáles Adalid 21, Murcia.
EAK-13: Astarloa 52, Bilbao.
EAK-14: Calle del Puerto 73, Huelva.
EAK-15: Academia 17, Lérida.
EAK-17: Apt. 248, Jerez de la Frontera.
EAK-18: Seminario 4, Palma de Mallorca (Islas Baleares) **English** 10.00-11.00, 20.00-21.00; **German** 19.00-20.00; **Swedish** 19.00-20.00 (FM only).
EAK-19: Plaza Mayor 35, Salamanca.
EAK-21: Menacho 16, Badajoz.
EAK-22: Avda le los Martires 20, Ciudad Real.
EAK-23: Juan Bravo 6, Puertollano (Ciudad Real).
EAK-24: Iglesia de Santa Cruz, Ibiza (Islas Baleares).
EAK-25: Lope de Vega 1, León.
EAK-29: José Antonio 16, Lorca (Murcial).
EAK-31: Aureliano Ibarra 3, Alicante.
EAK-37: Primo de Rivera 33, Benavente (Zamora).
EAK-42: Arcipreste Jose Ariza 1, Velez-Málaga (Málaga).
EAK-44: Bengoechea 5, San Sebastian.
EAK-46: Ca. Mayor 18, Albacete.
EAK-48: Palacio Episcopal, Astorga (León).
EAK-53: San Pedro Apostol 6, Reus (Tarragona).
EAK-58: R. Popular de Lugo, Lugo.
EAK-67: Apartado 121, Ciudadela (Menorca, Islas Baleares).
EAK-68: Rualasal 23, Santander.
EAK-78: R. Popular de La Plana, Castellón.
EAK-82: San Lázaro 21, Figueras (Gerona).
EAK-90: Gran Capitán 1, Montilla (Cordoba).
EAK-91: José Cueto 1, Avilés (Asturias).

CADENA DE EMISORAS SINDICALES (C.E.S.)

ADDR: Huertas 73, Edificio "Pueblo", Madrid. **Te:** 2172162 — **L.P:** Dir. Gen: J. Ramon Alonso.

STATIONS:

Name/Location	Call	kHz	MHz	kW	H. of tr.
Radio Teruel, Teruel	ECS- 1	1484	88.5	5	07.00-23.00
R. Badajoz, Badajoz	ECS- 2	1025	94.9	5	07.00-23.00
Radio Gredos, Avila	ECS- 3	1133	87.6	15	07.00-23.00
Voz de Granada, Granada	ECS- 5	836	97.8	5	07.00-00.30
Radio Tortosa, Tarragona	ECS- 6	1570	87.9	2	07.00-22.00
Voz de Lerida, Tarrega	ECS- 7	1570	87.9	2	07.00-23.00
Voz del Guadalquivir, Sevilla	ECS- 8	1133	90.0	5	06.00-23.00
Voz de Jaén, Jaén	ECS- 9	1133	93.3	5	07.00-23.00
Voz de La Mancha, Socuéllamos	ECS-10	1570	88.5	2	07.00-24.00
R. Centro, Madrid	ECS-11	1385	88.2	20	06.00-24.00
Voz de Cordoba, Cabra	ECS-12	1097	95.1	2	06.00-23.00
Voz de Ciudad Real, Ciudad Real	ECS-13	1133	95.7	3	07.00-23.00
Voz de Gerona, Gerona	ECS-14	1570	94.9	2	06.44-24.00
Radio Costa Del Sol, Marbella	ECS-15	1570	87.6	3	07.00-23.00
Voz de Lugo, Monforte	ECS-17	1133	88.8	2	07.00-23.00
Voz del Miño, Orense	ECS-18	1570	95.1	2	07.00-23.00
Voz de Zamora, Zamora	ECS-19	1133	88.8	2	07.00-23.00

Addresses: ECS-14: Gran Via Jaime I 30, Gerona: ECS-18: Apt. 268, Orense.

F.M. only:		MHz	kW
ECS-21	R. Tudela, Tudela	88.2	0.5
ECS-22	R. Costa Dorada, Ulldecona	95	0.5
ECS-23	R. Peñarroya, Córdoba	93.4	0.5
ECS-24	Voz del Valle, Orotava	89.58	0.5
ECS-25	Voz de Andujar, Jaén	89.5	0.5
ECS-26	La Voz de Martos, Jaén	88	0.5
ECS-27	R. Coral, Crevillente	96.9	
ECS-28	Voz del Bajo Aragon, Caspe	89.1	0.5
ECS-29	Voz del Cinca, Fraga	95	
ECS-30	Radio Ronda	99.3	
ECS-31	Radio Benidorm, Alicante	96.9	
ECS-32	Radio Maresma, Mataró		
ECS-33	Voz de Aviles, Asturias	97.8	0.5
ECS-34	Voz del Maestrazgo, Morella	99.6	0.5
ECS-35	Radio Hescar, Granada	99.4	0.5
ECS-36	Voz de Valencia, Utiel	87.9	0.5
ECS-37	Radio Sur, Coin	92.4	0.05
	Radio Jumilla, Murcia	88	0.5

V. by letter.

RUEDA DE EMISORAS RATO

ADDR: Jorge Juan, 27 Madrid. **Te:** 2760407.
MAIN STATION: EAJ49 R. Toledo 1520kHz 197.4m 2kW.
Branch St's: EAJ60 R. Almeria[2] 1475kHz, EAJ26 R. Antequera[3] 1106kHz, EAJ35 R. Panadés[4] 1106kHz.
D.PRGR: EAJ49: 08.00-23.30; EAJ60 and EAJ5: 07.00-24.00; EAJ26 07.00-23.30. **N:** every h.
INT-SIG: Electric gong (two tones) — **V.** by letter. 1) Navarro Ledesma 4, Toledo — 2) Arapiles 2, Almeria — 3) Ramon y Cajal 41, Antequera (Malaga) — 4) Rambla del Caudillo 10, Villanueva y Geltru (Barcelona).

RADIO ESPANA (Comm.)

ADDR: Apartado Correos 50.753, Madrid 13. **Te:** 222.83.20. **Cable:** Radiospaña — **HOME SCE:** Madrid EAJ2 917kHz 327.2m 12kW: 07.00-01.00.
ANN: "EAJ2 R. España, Madrid".

RADIO ESPANA DE BARCELONA

ADDR: Ramblas 126, Barcelona-2. **Te:** 222-07-51. **L.P:** Dir. Gen. Gonzalo Serraclara de la Pompa.

STATIONS:	Call	kHz	m	kW	H. of tr.
Radio España de Barcelona (Radio Reloj)	EAJ-15	1124	266.9	10	24h
Radio Lerida	EAJ-42	1520	197.4	2	07.00-01.00
Radio Gerona	EAJ-38	1520	197.4	2	07.00-01.00

FM: 96.9MHz (EAJ-15), 92.4MHz (EAJ-42), 88.2MHz (EAJ-38) all 1kW.

COMPANIA DE RADIODIFUSION INTERCONTINENTAL (Comm.)

ADDR: Modesto Lafuente 42, Madrid-3. **Te:** 2544603. **Telex:** 27497. **Cables:** Ondatlantic — **L.P:** Dir. Gen: F. Serrano Suñer. Dir. Tec: J. Serrano Suñer. Dir. Prgr: P. Cablk.
STATIONS: EAJ-29 953kHz 314.8m 20kW — FM: 95.1 MHz 1kW.
HOME SCE: 05.00-24.00 (FM: 14.30-20.30).
ANN: "Aqui R. Intercontinental Madrid" — **INT-SIG:** Xylophone — **PUB:** Prgr. schedule (monthly), illustrated sheet.

Affiliated st's:	Call	kHz	m	kW	H of tr.
R. Córdoba	EAJ-24	1475	203.4	2	11.00-01.00
R. Onteniente	EAJ-30	1412	205.9	1	09.00-23.00
R. Miramar	EAJ-39	1520	197.4	5	06.00-01.00
R. Orense	EAJ-57	1412	205.9	3	09.30-18.00
					20.00-24.00
R. Linares	EAJ-37	1106	271-2	2	11.00-01.00

R. Miramar F.M. 94.8MHz 1kW.
ADDR: EAJ24: Alfonso XIII 12, Córdoba; EAJ30: Plaza de J. Antonio 26, Ontentiente (Valencia); Plaza de Cataluña 9, Barcelona 2; EAJ57: Tiendas 9-11, Orense; EAJ37: Benito Pérez Galdós 35, Linares (Jaén).

SWEDEN

L.T: GMT+1h — **Pr.L:** Swedish — **EC:** a/c 50 (yes) +d/c.

SVERIGES RADIO (Swedish Broadcasting Corporation) (Non-comm, semigov. broadc. corpo.)
ADDR: Radiohuset, Oxenstiernsgatan 2, Stockholm. Postal Addr: Box 955, Stockholm S-10510. **Te:** 670865 (local 631000). **Cable:** Broadcast.
L.P: Chmn. Board of Govenors: P. Eckerberg. Dir. Gen: O. Rydbeck. Dep. Dir. Gen: K. E. Lundewall. Dir. Central Office: N. P. Lindskog. Dir. Finance: G. Walden. Dir. Staff: N. Ragnå. Dir. Eng: J. von Utfall. Dep. Dir. Eng: C. Wachtmeister. Dir. Prgr. (Radio): N. O. Franzén. Dep. Dir. Prgr. (Radio): P. Brunius. Dir. Prgr. (TV 1): H. Unsgaard. Dir. Prgr. (TV 2): Ö. Wallqvist. Coordinator: H. Dyfverman. Contr. Educ. Prgr: R. Lundgren. Dir. News Prgr: P. M. Hamberg. Asst. Dir. News Prgr: G. Rügheimer. Legal Adviser: G. Hansson. Dir. Int Rel: E. W. Ploman. Dep. Dir. Int. Rel: G. Dahlin. Dir. Press and Information: Ph. v Krusenstierna. Dir. Prgr. European and Overseas Sce's: Mrs. B. Svinhufvud.

TELEVERKETS CENTRALFÖRVALTNING
(The Central Administration of Swedish Telecommuncications) has the responsibility for the distribution of the prgr's produced by Sveriges Radio and has also charge of the collection of fees.
Addr: Mårbackagatan 11, 123 86 Farsta. **Te:** (08)7131000. **Cable:** Gentel, Stockholm — **L.P:** Dir. Gen: B. Bjurel. Head Operational Dept: T. Larsson. Head of Section handling broadc. matters: A. Rohdin.
STATIONS: Long and Medium Waves; *) carrying prgr. 3 at night.

Station	Prgr.	kHz	kW
Boden	3	1594	0.15
Borås	1	1562	2
	3	1394	0.15
Eskilstuna	1	1562	0.5
Falkenberg	1	1448	0.15
Falun	1	1223	100
Gävle	1	1448	0.5
Göteborg	1	980	150
	3	1394	0.25
Hälmstad	1	1562	2
	3	1394	0.15
Hudiksvall	1	1448	1.5
	3	1394	0.15
Hälsingborg	1	1448	1.5
Hörby	1	1178	100
Jönköping	1	1448	2
	3	1594	0.2
Kalmar	1	1562	2
Karlskrona	1	1448	1.5
Karlstad	1	1562	1.5
	3	1394	0.15
Kiruna	1	1562	0.5
	3	1394	0.15
Kristine-hamn	1	1448	0.15
	3	1594	0.15
Ludvika	3	1394	0.15
Luleå	1	182	10
	3	1394	0.15
Malmberget	1	773	2
	3	1394	0.15
Malmö	1	1562	2
Mariestad	3	1394	0.15
Motala	1	*191	600
Norrköping	1	1562	1.5
Piteå	3	1394	0.15
Porjus	1	1529	0.075
	3	1594	0.075
Stockholm	1	773	150
	3	1394	0.25
Sundsvall	1	593	150
	3	1394	0.15
Säffle	1	1448	0.15
	3	1594	0.15
Söderhamn	1	1562	0.06
	3	1394	0.15
Trollhättan	1	1448	2
	3	1594	0.15
Uddevalla	1	1562	0.5
	3	1394	0.15
Umeå	1	1448	2
	3	1594	0.15
Uppsala	1	1562	2
Varberg	1	1562	2
	3	1394	0.15
Visby	1	1448	0.5
Vänersborg	3	1394	0.15
Västervik	3	1394	0.15
Västerås	1	1448	2
Örebro	1	1562	1.5
Örn-sköldsvik	1	1562	1.5
	3	1394	0.15
Östersund	1	719	150

Short Waves: Hörby 2 × 100kW tr's: 6065kHz 49.46m — 9625kHz 31.17m.

Station	Prgr.	MHz	kW
Arjeplog(s)	1	91.8	0.03
	2	95.6	0.03
	3	99.7	0.03
Arvidsjaur	1	89.4	60
	2	94.2	60
	3	97.1	60
Bollnäs	1	88.4	60
	2	91.8	60
	3	96.0	60
Borlänge	1	89.4	60
	2	93.0	60
	3	97.7	60
Borås	1	88.5	10
	2	94.6	10
	3	97.9	10
Bäckefors	1	92.7	60
	2	96.8	60
	3	99.1	60
Drevdagen(s)	1	90.2	0.03
	2	94.3	0.03
	3	98.65	0.03
Duved(s)	1	90.2	0.03
	2	95.4	0.03
	3	98.6	0.03
Emmaboda	1	93.0	60
	2	96.7	60
	3	99.8	60
Enafor(s)	1	92.8	0.03
	2	96.2	0.03
	3	98.8	0.03
Funäs-dalen(s)	1	89.6	0.03
	2	92.9	0.03
	3	99.9	0.03
Gäddede(s)	1	88.9	0.03
	2	96.2	0.03
	3	99.3	0.03
Gällivare	1	88.3	60
	2	94.9	60
	3	98.5	60
Gävle	1	88.1	60
	2	97.4	60
	3	99.8	60
Gördalen(s)	1	89.2	0.03
	2	92.0	0.03
	3	97.55	0.03
Göteborg	1	89.3	60
	2	96.3	60
	3	99.4	60
Halmstad	1	87.7	60
	2	91.2	60
	3	95.4	60
Haparanda	1	91.3	60
	2	93.6	60
	3	97.9	60
Hemavan(s)	1	90.5	0.03
	2	94.4	0.03
	3	97.3	0.03
Hälsingborg	1	89.5	3
	2	95.7	3
	3	98.7	3
Hölje(s)	1	88.9	0.03
	2	93.2	0.03
	3	99.9	0.03
Hörby	1	88.8	60
	2	92.4	60
	3	97.0	60
Idre(s)	1	88.0	0.03
	2	91.1	0.03
	3	93.4	0.03
Jormvatt-net(s)	1	88.0	0.03
	2	90.4	0.03
	3	98.0	0.03
Kallrör(s)	1	89.5	0.03
	2	95.7	0.03
	3	99.7	0.03
Karesuando	1	87.6	0.3
	2	90.0	0.3
	3	97.8	0.03
Karlshamn	1	90.3	3
	2	93.4	3
	3	98.3	3
Karlskrona	1	89.1	10
	2	95.0	10
	3	97.7	10
Karlstad	1	90.5	3
	2	94.2	3
	3	96.5	3
Kiruna	1	89.1	60
	2	92.7	60
	3	96.4	60
Kultsjön(s)	1	90.2	0.03
	2	93.7	0.03
	3	96.1	0.03

RADEX

är ensamförsäljare i Sverige för

World Radio TV Handbook

WRTVH Summer Supplement och

How to listen to the World

Sänd Era beställningar till

RADEX

Box 8013

250 08 Hälsingborg

Sweden

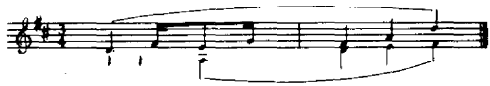
Station	Prgr.	MHz	kW
Kvikkjokk Tavvevare(s)	1	94.0	0.30
	2	97.3	0.03
	3	99.9	0.03
Kvikkjokk/Årrevare(s)	1	89.7	0.03
	2	92.0	0.03
	3	96.1	0.03
Laisvall(s)	1	90.8	0.03
	2	95.1	0.03
	3	98.0	0.03
Ljungdalen	1	90.0	0.3
	2	93.1	0.3
	3	96.8	0.3
Lycksele	1	92.9	60
	2	95.4	60
	3	98.7	60
Malmö	1	87.9	3
	2	93.3	3
	3	98.0	3
Mora	1	92.2	10
	2	96.7	10
	3	99.0	10
Motala	1	91.1	3
	2	93.8	3
	3	98.2	3
Norrköping	1	90.0	60
	2	93.5	60
	3	98.7	60
Nässjö	1	89.6	60
	2	92.1	60
	3	99.0	60
Pajala	1	87.9	60
	2	93.0	60
	3	95.9	60
Rörbäksnäs(s)	1	88.3	0.03
	2	91.2	0.03
	3	93.6	0.03
Seitevare(s)	1	90.9	0.03
	2	93.7	0.03
	3	96.8	0.03
Skellefteå	1	93.8	10
	2	96.3	10
	3	99.9	10
Skövde	1	88.9	60
	2	95.1	60
	3	97.5	60
Sollefteå	1	88.2	60
	2	93.5	60
	3	98.1	60
Stockholm	1	92.4	60
	2	96.2	60
	3	99.3	60
Stordalen(s)	1	89.6	0.03
	2	92.3	0.03
	3	99.05	0.03
Storuman	1	87.6	60
	2	91.2	60
	3	99.0	60
Strömstad(s)	1	90.3	0.03
	2	93.6	0.03
	3	96.0	0.03
Sundsvall	1	92.7	60
	2	96.9	60
	3	99.2	60
Sunne	1	90.9	60
	2	94.5	60
	3	98.5	60
Sveg	1	90.6	60
	2	94.9	60
	3	97.9	60
Sysslebäck(s)	1	88.0	0.3
	2	92.5	0.3
	3	99.4	0.3
Torneträsk(s)	1	87.6	0.03
	2	94.4	0.03
	3	98.0	0.03
Trollhättan	1	91.9	3
	2	95.8	3
	3	99.8	3
Tåsjö	1	89.8	60
	2	94.7	60
	3	97.5	60
Tärnaby(s)	1	88.9	0.03
	2	95.7	0.03
	3	98.2	0.03
Uddevalla	1	89.9	3
	2	93.1	3
	3	97.2	3
Uppsala	1	90.3	3
	2	92.3	3
	3	96.6	3
Varberg	1	90.4	10
	2	93.6	10
	3	98.8	10
Vassijaure(s)	1	90.7	0.03
	2	95.1	0.03
	3	97.7	0.03
Vietas(s)	1	89.9	0.03
	2	93.9	0.03
	3	97.4	0.03
Visby	1	87.6	15
	2	94.1	15
	3	97.2	15
Vislanda	1	88.0	10
	2	90.6	10
	3	94.7	60
Vännäs	1	88.5	60
	2	92.1	60
	3	95.8	60
Västervik	1	88.3	60
	2	91.8	60
	3	96.0	60
Västerås	1	90.7	60
	2	95.7	60
	3	98.0	60
Ånge	1	93.2	10
	2	95.6	10
	3	99.6	10
Örebro	1	87.9	60
	2	91.5	60
	3	99.6	60
Örnsköldsvik	1	90.8	3
	2	94.4	3
	3	97.8	60
Östersund	1	87.9	60
	2	91.5	60
	3	94.0	60
Östhammar	1	89.1	3
	2	92.8	3
	3	95.5	3

Stations to open before July 1st, 1970:
Finnveden and Kisa (both 3kW ERP)+6 low power satellites.

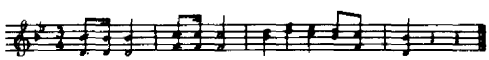
HOME SERVICE

FIRST PRGR: (netw. of Spoken Word, also during daytime serious music); 05.00 (Sun 06.00)-22.00 (approx). **N:** 05.00 (W), 05.30 (W), 06.00 (W), 06.30 (W), 07.00, 10.00 (W), 11.30, 13.00 (W. exc. Sat), 14.00, 15.00 (W exc. Sat), 16.00, 17.30, 20.00 (exc. Sat), 21.00 — **Wrp.** (incl. Forecast for Swedish Waters); 05.30, 07.00, 20.50; (exel. Swedish Waters): 11.25 (W), 11.35 (Sun), 17.25. Forecast for Swedish Waters only 12.00 (W), 16.05.
Short Waves: 06.30-07.15 on 6065kHz, 11.30-12.15 on 9625kHz, 17.30-18.00 on 6065kHz.
Rlg. Prgr's: Morning Sce's: W: 05.20, 06.15. Evening prayer: D 20.45; Sun Divine Sce: 10.00, 16.10 — **Concert:** D 08.00, 13.15 (W), 14.10 (Sat/Sun) — **Theatre:** 12.00 (Sun), 12.15 (Sat), 19.00 (Sat/Thurs), 21.30 (Thurs).
SECOND PRGR: (Education and Serious Music): During terms School broadcasts Mon-Fri 08.00-12.00 approx. Adult Education: 07.00-08.00, 14.00-15.00 (Sun), 14.00-16.00 (Sat), 17.30-18.30 (W). All evenings 18.30 to closing: Serious music.

THIRD PRGR: Light music 24h (incl. Night prgr's). Also on 191kHz after closing of First Prgr.
N: 22.00-22.05 and headlines one min. before the h W 04.59-20.59; Sun 09.59-20.59.
ANN: Nat prgr: "Sveriges Radio . . ." and the service f. inst. "Sveriges Radio, program eet" — **INT-SIG:** 1st Prgr: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n" or, more frequently, birds changing each week.
Home Service 1st Prgr:



Home Service 2nd Prgr:



FOREIGN SERVICE

ADDR: Radio Sweden, S-10510 Stockholm — **L.P:** Contr. European & Overseas Sce's: Mrs. B. Svinhufvud. Dep. Contr: B. Järrel. Head-News Sce: L. Hansson. Head Prgr. Sce: J. Nyström. Head-Transcription Sce: A. Bäverman. Head Film Sce: A. Bäcklund.
Stations: Hörby (G.C: 13.44E/RR.49N) 2×100kW sw-tr's.

kHz	m	kHz	m	kHz	m	kHz	m
5990	50.08	11705	25.63	15265	19.66	17840	16.82
6065	49.46	11785	25.46	15310	19.60	21585	13.90
9625	31.17	15155	19.80	15315	19.59	21690	13.83
9665	31.04	15180	19.76				

Areas: I=Europe; II=Middle East; III=Far East; IV=Africa; V=So. Asia; VI=Eastern No. America; VII=Western No. America; VIII=So. America.

Schedule, November '69-February '70:

English	Area	kHz/Beam
11.00-11.30	I/VI	*9625/15315(295°)
12.30-13.00	III/IV	9625(50°)/21690(183°)
14.00-14.30	V/VI	15265(98°)/21585*
16.00-16.30	II/VII	9665(145°)/15310(325°)
19.00-19.30	II/IV	11785(145°)/15155(183°)
20.45-21.15	I/III	*6065/9625(50°)
22.45-23.15	VIII/III	11705(235°)/15155(50°)
23.15-23.45	I	*1178
00.30-01.00	VI	5990(295°)
02.00-02.30	VI	5990(295°)
03.30-04.00	VII	11705(325°)
05.15-05.45	V	17840(98°)
French		
09.30-10.00	I/II	9625*/21690*
15.00-15.30	V/VI	15265(98°)/21585*
18.00-18.30	IV	15155(183°)
21.30-22.00	I	*6065/11705(235°)
03.00-03.30	VII	11705(235°)
05.45-06.15	V	17840(98°)
German		
10.30-11.00	I	*9625
17.30-18.00	IV	15155(183°)
19.45-20.15	I	*6065
22.45-23.15	I	*1178
Russian		
08.30-09.00	I/III	*9625/15180(98°)
20.15-20.45	I/III	*6065/9625(50°)
22.15-22.45	I	*1178
Portuguese		
22.00-22.30	I	*6065/11705(235°)
00.30-01.00	VIII	11705(235°)
02.00-02.30	VIII	11705(235°)
Spanish		
09.00-09.30	I	*9625
00.00-00.30	VIII	11705(235°)
01.30-02.00	VIII	11705(235°)
Swedish		
06.30-07.15†a	I	*6065
10.00-10.30	I/II	*9625/21690*
11.30-12.10†	I/VI	*9625/15315(295°)
13.00-13.30	III/IV	9625(50°)/21690(183°)
14.30-15.00	VI/V	15265(98°)/21585*
16.30-17.00	VII/II	15310(325°)/9665(145°)
17.30-18.00†	I	*6065
18.30-19.00	II/IV	11785(145°)/15155(183°)
23.15-23.45	VIII/III	11705(235°)/15155(50°)
01.00-01.30	VIII/VI	11705(235°)/5990(295°)
04.00-04.30	VII	11705(325°)
04.45-05.15	V	17840(98°)

*) omnidirectional aerial — †) relay Home Sce. 1st

radio Sweden

SCHWEDEN · SUÈDE · SUÉCIA · SUECIA · ШВЕЦИЯ

calling the world in seven languages daily:

ENGLISH
FRENCH
GERMAN
SPANISH
PORTUGUESE
RUSSIAN
SWEDISH

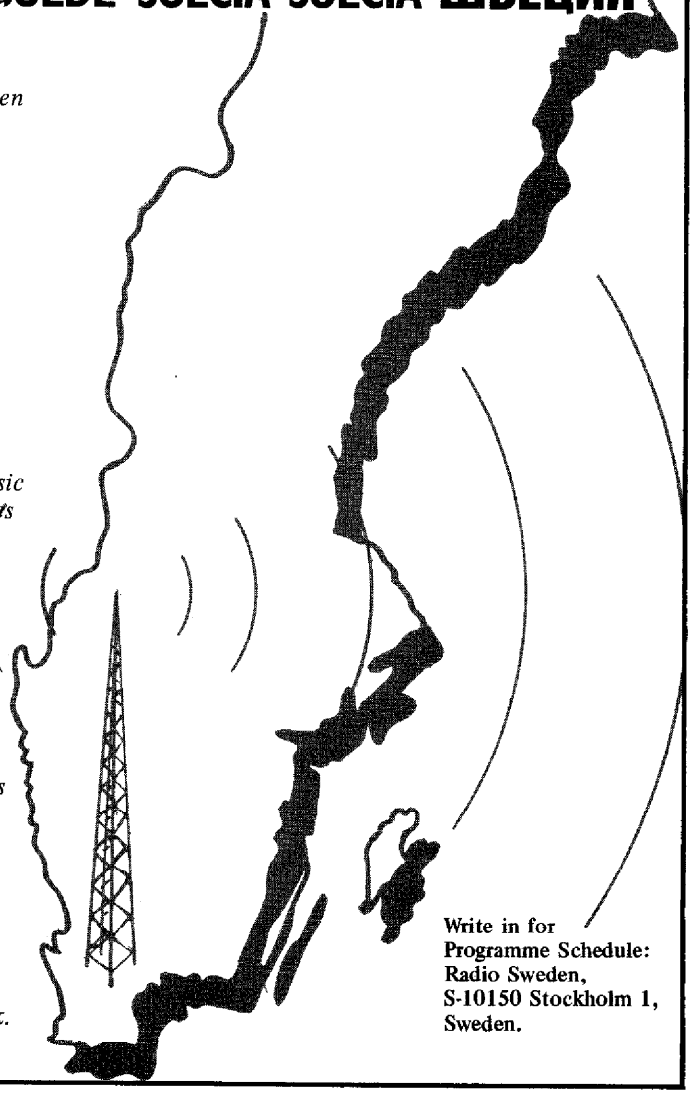
and bringing News, Music and Feature Programmes over Radio Sweden's 100kW transmitters. Special Programmes for DX-ers and Pop-Fans.

The transcription service

offers a wide range of recorded programmes about Sweden.

The television service

offers films about Sweden in different languages or with an international soundtrack.



Write in for Programme Schedule: Radio Sweden, S-10150 Stockholm 1, Sweden.

Prgr. — a) W only — **N:** at the beginning of each tr. **DX-PRGR: English:** Tues 11.20, 12.50, 14.20, 16.20, 19.20, 21.05, 23.05, 23.35; Wed 00.50, 02.30, 03.50, 05.35. **French:** Tues 09.50, 15.20, 18.20, 21.50; Wed 03.20, 06.05. **German:** Tues 10.50, 17.50, 20.05, 23.05. **Russian:** Wed 20.35, 22.35, Thurs 08.50. **Portuguese:** Wed 22.10; Thurs 00.40, 02.10. **Spanish:** Thurs 09.50, **21.50;** Fri 00.20, 01.50.
ANN: E: "This is R. Sweden". G: "Hier ist R. Schweden". Fr: "Ici R. Suéde". Sp. and P: "Aqui R. Suécia, Estocolmo". Sw: "Utlandsprogrammet, Sveriges Radio". Ru: "Govorit Stokgolm".
INT-SIG: Foreign Sce: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n".

V. by QSL-card, folder and/or letter. R. Sweden will appreciate all letters and reports on reception of the transmissions. Prgr. schedules by wriiting to R. Sweden. S-10510 Stockholm.
PUB: Monthly: Radio Sweden" in seven languages: English, German, French, Spanish, Portuguese, Russian, Swedish.

IBRA RADIO AB (Non-Comm, Non.-Gov. Christian)
ADDR: Box 821, Stockholm 1 — **Studios:** The Main studio in Sveavägen 34, Stockholm. **Cable:** "Ibra-Radio". **STATIONS** broadc. IBRA prgr's:
R. Litoral, Cochabamba, Bolivia — R. WIVV, Vieques, Puerto Rico — R. Riquelme, Coquimbo, Chile — R. Paraguay, Asuncion — R. Kanto, Yokohama — R. Hokkaido, Hokkaido — R. Corrientes, Corrientes, Argentina — R. St. HCJB (The Voice of Andes): Every Wed in Swedish — R. Independencia, Montevideo, Uruguay — R. WEBH, Chicago, U.S.A: FM-broadcast in Swedish every Sun (R. Sweden).

SWITZERLAND

L.T: GMT+1h — **Pr.L:** German, Swiss German dialects, French, Italian, Romanche — **EC:** a/c 50 (yes).

SWISS BROADCASTING CORPORATION (+SBC)
(A non-profit-making Comp) — **ADDR:** Schweizerische Radio-und Fernsehgesellschaft (SRG); Société suisse de radiodiffusion et television (SSR): Società Svizzera di Radiotelevisione (SSR): Giacomettistrasse 3000 Berne 16. **Cable:** Radif. **Te:** (031)445555 — **L.P:** Pres. of the Board of Adm: Dr. A. Guinand. Dir. Gen: M. Bezençon. Dir. Adm. and Dep. Dir. Gen: D. Carl. TV Dir: Edouard Haas. Legal Dept: Dr. Régis de Kalbermatten Prgr. Sce/Foreign Relations Radio: Dr. Gian Carlo Pellandini. TV Coordination: Frank R. Tappolet. Press and Documentation: Dr. M. T. Drack.
Schweizerischer Kurzwellendienst, Service suisse des ondes courtes, Swiss Shortwave Service, Giacomettistrasse 3000 Berne 16. **Te:** (031)446644 — **L.P:** Dir: J. Curchod.
Telephonrundspruch, Telediffusion (Wired Broadc), Giacomettistrasse 1,3000 Berne 16. **Te:** (031)441444 — **L.P:** Dir. Sw-Sce. and Telediff: J. Curchod. Head Telediff: B. Bruni.
According to the new State concession in force the Swiss Broadc. Corpo. (SBC) comprises three reg. radio and tv societies, namely:
Programme services in German:
"Radio-und Fernsehgesellschaft der Deutschen und der Raetoromanischen Schweiz" (6 reg. societies, 3 radio studios and 1 TV studio) — **L.P:** Reg. Radio Dir: Dr. F. Ernst, Marignanostrasse 50,4000 Bâle. **Te:** (061)346220. Reg. TV Dir: Dr. Guido Frei, Leutschenbachstr. 110,8052 Zürich. **Te:** (051)602200. **Radio Studios:** R. Berne, Schwarztorstrasse 21,3000 Berne. Dir: M. Bollinger. R. Bâle, Novarastrasse 2,4000 Bâle. Dir: Dr. P. Meyer-Gutzwiller. R. Zürich, Brunnenhofstrasse 20,8057 Zürich. Dir: Dr. G. H. Padel.
Programme services in French:
"Societé de Radiodiffusion et de Télévision de la Suisse Romande" (2 reg. societies, 2 radio studios, 1 TV-studio). **L.P:** Reg. Radio-Dir: J. P. Méroz, la Sallaz, 1010 Lausanne. **Te:** (021)217111. Reg. TV Dir: R. Schenker, 6 Place des Eauz-Vives, 1211 Genéve. **Te:** (022)359060. **Radio Studios:** R. Genève, 66 Boulevard Carl-Vogt, 1211 Genève. Dir: R. Aubert. R. Lausanne, Maison de la Radio, 1010 Lausanne. Dir: Dr. P. Valloton.
Programme services in Italian: Società cooperative per la radiotelevisione nella Svizzera italiana (CORSI). **L.P:** Reg. Radio-Dir: Dr. S. Molo. Reg. TV-Dir: F. Marazzi. **Radio Studio:** R. Lugano, 6903 Lugano-Besso. **Te:** (091)33021. **TV studio:** 6903 Lugano-Besso. **Te:** (091)32021.

HOME SERVICE

GERMAN: First Prgr: Sun 06.00-22.30; Mon-Sat 05.10-22.30 (Sat 24.00).

	kHz	m	kW
Beromünster	529	567.1	500
Beromünster	1562	192.0	160
Basel	1562	192.0	0.5

FM:	ch	MHz	kW/W
Bondo	2	87.6	20W
Brusio	2	87.6	15W
Weisshorn	2	87.6	10W
Hornfluh	3	87.9	0.75
Bantiger	4	88.2	0.6
Lenk	4	88.2	10W
Poschavio	4	88.2	12W
Gotschnagrat	8	89.4	1.2
Lohn	10	90.0	20W
Válzeina	11	90.3	0.75
Ziegelbrücke	11	90.3	13W
St. Chrischona	12	90.6	10
Rigi	13	90.9	30
Buchserberg	15	91.6	100W
Sta. Maria	20	93.0	125W
Brig	23	93.9	0.5
Engelberg	21	93.3	20W
Lenzerheide	25	94.5	1.5

FM:	ch	MHz	kW/W
Riffelalp	25	94.5	27W
Uetliberg	25	94.6	1.8
Sool	26	94.8	750W
Dél	27	95.1	0.75
Klewenalp	27	95.0	12W
Tarasp	27	95.1	0.5
Attinghausen	28	95.3	220W
Geissholz	28	95.4	0.75
Andermatt	29	95.7	150W
Davos	29	95.7	90W
Sils	29	95.7	36W
Hospental	30	96.0	35W
Pfänder	31	96.3	130W
Ca. d'Farett	32	96.6	0.2
Celerina	33	96.9	0.75
Niederhorn	34	97.2	9
Ruschein	35	97.5	1.2
Leuk	36	97.8	0.75
Feldis	39	98.7	75W
Ernen	40	99.0	2
Morissen	43	99.9	0.25
Säntis	43	99.9	40

N, Wrp, Current N. items, Comm: 05.15, 06.00 (Sun 06.45), 07.00, 09.00, 10.00, 11.30, 11.40, 14.00, 15.00, 17.00, 18.00, 18.15, 18.25, 21.15, 21.20, 22.25 — **World Chronicle:** Fri 18.50 — **"Samstags Rundschau"** (domestic affairs): Sat 13.00 — **Auto-Radio Schweiz** (for motorists): W 06.10-07.30.
Second Prgr: D 11.00-22.30.

FM:	ch	MHz	kW/W
Celerina	3	87.9	0.75
Davos	3	87.9	90W
Geissholz	4	88.2	0.75
Lenzerheide	4	88.2	1.5
Ziegelbrücke	4	88.2	13W
Feldis	5	88.5	75W
Engelberg	6	88.8	20W
Sta. Maria	6	88.8	125W
Brig	8	89.4	0.5
Klewenalp	11	90.3	12W
Tarasp	15	91.5	0.5
Hospental	15	91.5	35W
Morissen	16	91.9	0.25
Attinghausen	17	92.1	220W
Andermatt	20	93.0	150W
Leuk	20	93.0	0.75
Bantiger	21	93.2	600W
Niederhorn	22	93.6	9
Sils	23	93.9	36W

FM:	ch	MHz	kW/W
Weisshorn	26	94.8	10W
Ernen	28	95.4	2
Lenk	28	95.4	10W
Säntis	28	95.4	40W
Hornfluh	30	96.0	0.75
Ruschein	31	96.4	1.2
Rigi	32	96.6	30
Lohn	33	96.9	20W
Buchserberg	33	96.9	100W
Uetliberg	35	97.5	1.8
Gotschnagrat	36	97.8	1.2
Riffelalp	36	97.8	27W
Pfänder	36	97.7	130W
Dél	38	98.4	0.75
St. Chrischona	40	99.0	10W
Sool	40	99.0	0.75
Valseina	41	99.3	0.75

Local Broadc. in German: Sat 17.00-18.00, Sun 16.45-17.45. **Broadcasts in Romansch:** Sun 11.40-12.00 (every 2nd Sun 08.15-08.45 sermon); Tues and Sat 18.45-19.00; Thurs 16.00-16.30 (every 1st Thurs of the month 19.00-20.30); Sat 17.30-18.00.

FRENCH: First Prgr: Sun 06.10-22.30, Mon-Fri 05.10-22.30, Sat 05.10-24.00.
Sottens 764kHz 392.6m 250kW — Saviése 1367kHz 219.5m 0.5kW.
FM: Rel. Sottens:

	ch	MHz	kW
Moudon	3	87.9	10W
Leuk	4	88.2	0.75
St. Sulpice	17	92.0	20W
Vallée de Joux	19	92.7	20W
Chamossaire	21	93.3	320W
Les Ordons	24	94.2	1.5
La Dôle	26	94.8	45

	ch	MHz	kW
Moron	26	94.8	135W
Bantiger	27	95.1	12
Gruyère	28	95.4	70W
Val de Travers	28	95.5	22W
La Chaux de Fonds	31	96.3	1.5
Hornfluh	38	98.4	0.75
Moutier	38	98.4	7W
Ravoire	41	99.3	1.2

N, Wrp, Comm. (Current N-items): 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 11.30, 13.00, 14.00, 15.00, 16.00, 17.00, 17.05, 18.00, 19.00, 21.30, 22.25 — **"La**

Advertisement

telecommunication journal

In the increasingly international age in which we live, it is more important than ever that everyone connected with radio should be in touch with authoritative world opinon on radio matters.
The Telecommunication Journal, the official organ of the International Telecommunication Union (ITU), serves just this purpose. Since 1869 (when it first appeared as the "Journal Télégraphique") it has faithfully covered all aspects of telecommunications which come within the purview of the world organization (now a UN specialized agency) set up in 1865 to regulate them.

The journal contains

- a news section covering the activities of the ITU, of its Member Administrations and of private operating companies and highlighting technical advances in radio throughout the world –
- a list of satellite launchings notified during the previous month –
- a section entitled "Ideas and Achievements" which coversthe major developments of telecommunications in the various Member Administrations –
- articles by world experts, with a heavy emphasis recently on the latest developments in space communications –
- a comprehensive list of articles of telecommunication interest appearing in the scientific press throughout the world –
- official ITU information, including lists of forthcoming ITU Conferences and other International telecommunication meetings –
- monthly sunspot predictions –
- "Telephilately" a section devoted to stamps with telecommunications as their subject –
- section giving details of invitations to tender released by the various Member Administrations concerning telecommunication installations.

It is published monthly by the ITU in separate English, French and Spanish editions.

It costs 2.5 Swiss francs a copy. The annual subscription is 25 francs for one language edition, 50 francs for two and 75 francs for three.

For further information, write to: Telecommunication Journal, ITU, Place des Nations, 1211 Geneva, Switzerland.

AUTHORITATIVE **READABLE** **COMPREHENSIVE**

situation internationale": Fri 18.30 — **"Route Libre":** Sat 07.05 — **Symphony:** Wed 19.30.
Second Prgr: Sat/Sun 07.00-22.00; Mon-Fri 11.00-22.00.

FM:	ch	MHz	kW	FM:	ch	MHz	kW
La Chaux de Fonds	2	87.6	1.5	Ravoire	29	95.7	1.2
Vallée de Joux	3	87.9	20W	Chamossaire	31	96.3	320W
Leuk	11	90.3	0.75	St. Sulpice	34	97.2	20W
Moudon	12	90.6	10W	Val de Travers	40	98.9	22W
La Dôle	14	91.2	45	Gruyère	40	99.0	70W
Moron	14	91.2	135W	Bantiger	41	99.3	12
Hornfluh	15	91.5	0.75	Les Ordons	42	99.6	1.5
Moutier	18	92.3	7W				

ITALIAN: First Prgr: Sun 07.00-22.30, Mon-Fri 06.00-22.30, Sat 06.00-24.00.
Monte Ceneri 557kHz 538.6m 100kW.

FM:	ch	MHz	kW/W	FM:	ch	MHz	kW/W
Airolo	4	88.0	10W	M. Morello	31	96.3	0.75
Peccia	4	88.2	0.1	M. Ceneri	33	96.9	0.75
Bondo	11	90.3	20W	Cardada	34	97.2	0.6
Brusio	15	91.5	15W	Pizzo Matro	36	97.8	370W
Ca d'Farett	17	92.1	200W	M.S. Salvatore	39	97.7	12
Poschavio	23	93.9	12W	Grono	42	99.6	1
Monti di Motti	29	95.8	250W				

N, Wrp, Comm, Current N. items: 06.15 (Sun 07.15), 07.00, 09.00, 11.30, 11.35, 13.00, 15.00, 17.00, 18.15, 18.20, 19.00 (Fri), 21.00, 22.00, 22.05.
Second Prgr: W 11.00 (Sat 13.00)-21.30, Sun 13.00-16.15, 19.00-21.30.

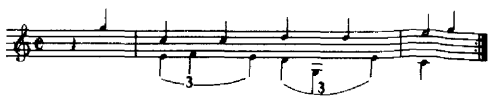
FM:	ch	MHz	kW/W	FM:	ch	MHz	kW/W
M. Morello	6	88.8	0.75	Airolo	22	93.6	0.01
M. Ceneri	8	89.4	0.75	Peccia	23	93.9	0.1
Pizzo Matro	10	90.0	0.37	Monti di Motti	25	94.5	250W
Cardada	14	91.3	0.6	Grono	26	94.8	1
M.S. Salvatore	20	93.0	12				

JOINT PRGR'S: Swiss Radio's First Programmes: W 10.05-11.00 and Sat 22.30-24.00. Second Prgr: W 11.00-17.00, 18.00-19.00.

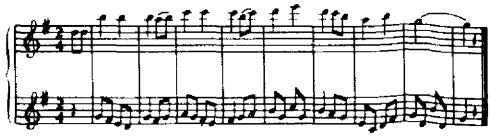
ANN: German: "Hier ist das Schweizer Radio". French: "Radio Suisse Romande". Italian: "Radio della Svizzera Italiana".

INT-SIG: Schweizer Radio 1st Prgr: From Rossini's Wilhelm Tell Ouverture:

2nd Prgr: Combination of the Folksongs "Ich bin ein Schweizerknabe" and "Lueget vo Bärge-n und Tal":



Radio Suisse Romande: Melody by Achille Christen (Celesta):



Radio Svizzera Italiana: "Campane della Chiesa de Pazzalino":

V. Any messages from our listeners and viewers are most welcome. Both QSL-card and letter are used.

PUB: "Radio + Fernsehen", "Radio TV — Je vois tout", "Radiotivu" — **FI:** By licence fee.
ALF: Frcs 40, for sound broadcasting.

FOREIGN SERVICES

Schwarzenburg: (G.C: 07.24E/46.49N): 4×100kW, 2×250 kW tr's (directional for overseas tr's).
Beromünster: (G.C: 08.10E/47.12N): 2×250kW tr's (omnidirectional, European prgr).

kHz	m	kHz	m	kHz	m	kHz	m
3985	75.28	9595	31.27	11775	25.48	17795	16.86
6055	49.55	9665	31.04	11865	25.28	17830	16.83
6120	49.02	9720	30.86	11880	25.25	17845	16.81
6165	48.66	11715	25.61	15125	19.84	21520	13.94
9535	31.46	11720	25.60	15305	19.60	21540	13.93
9590	31.28	11760	25.51	15430	19.44		

Schedules 2/11/69-2/5/1970

EUROPEAN SERVICE

Omnidirectional (covering Europe and No. Africa): 05.45 (Sun 06.00)-15.00 (Sun 13.00) on 6165/9535kHz, 15.00 (Sun 13.00)-20.00 on 3985/6165/9535kHz, 20.00-23.00 on 3985/6165kHz. Quadrant antennas are used for the European prgr.
English: W 07.00-08.00 (for details see "Prgr's in English"). **German/French/Italian:** W 05.45-07.00, 08.00-23.00, Sun 06.00-23.00 — **Esperanto:** 12.20 (Mon/Wed), 21.50 (Thurs/Sat).
NEWS: English: 07.02 (W). **German:** 06.00 (W), 06.45 (Sun), 09.00 (W), 10.00 (W), 11.30, 14.00 (W), 18.15, 22.30. **French:** 06.15 (W), 07.00 (Sun), 11.45 (Sun), 12.00 (W), 15.00 (W), 16.00 (W), 19.20, 22.45. **Italian:** 06.30 (W), 07.15 (Sun), 12.00 (Sun), 12.30 (W), 17.00 (W), 19.10, 22.00.
Prgr's for Swiss Abroad: 08.00-08.30 (W), 12.30-13.00 (Sun), 17.45-18.15 — Swiss-German: Tues, Fri, Sun; French: Mon, Thurs; Italian: Wed, Sat.

OVERSEAS SERVICES

I=Africa; II=United Kingdom/Ireland; III=Spain/Portugal; IV=Australia/New Zealand; V=Japan/China; VI=Far East/India/Pakistan; VII=Near and Middle East; VIII=So. America; IX=Ce. America; X=No. America (East); XI=No. America (West); SA=For Swiss abroad.

Times	kHz/Beam	Areas	Languages
07.00-08.30	9590(260°)	IV	**English/SA**
	11775(245°)		
08.45-09.45	9665(50°)	V	**English**
	11760(50°)		
10.00-13.00	15305(200°)*	I	**English**/German —
	17795(170°)		
	21520(140°)	I	French-Italian/SA
11.30-13.00	9665(305°)	II	**English/SA**
	11865(305°)		
13.15-14.45	15305(65°)	VI	
	17845(80°)		
	21520(80°)		**English/SA**
13.30-14.45	9665(245°)	III	SA/Spanish
	11845(245°)		
15.00-16.15	21520(170°)	I	Portuguese/SA
15.00-17.00	15305(110°)	VII	**English**/SA/Arabic
	17830(125°)		
15.00-17.00	21540(230°)	VIII	Portuguese/SA/Spanish
17.15-19.15	15305(140°)	I	Arabic/French/**English**
	17795(170°)		
19.30-20.30	6055(305°)	II	**English**
	9665(305°)		
20.45-22.45	6055(245°)	III	Portuguese/SA/Spanish
	9665(245°)		
23.15-01.15	9595(260°)	VIII	Portuguese/SA/Spanish
	11720(245°)		
	15125(230°)		
01.30-03.00	6120(305°)	X	**English/SA**
	9535(305°)		
	11715(305°)		
03.15-04.30	6120(290°)	IX	Spanish/SA
	9535(290°)		
	9720(260°)		
04.45-06.15	6120(320°)	XI	**English/SA**
	9720(320°)		

Only curtain antennas are used for overseas tr's.
*) Only 10.00-11.00.

PRGR'S IN ENGLISH

Each tr 60 min — All tr's begin with T.S. and N — Features:
00 Announcement
01 Time Signal
02 News
12 Mon-Fri : Commentary
Sat : "In Switzerland This Week" incl. Geneva and Zürich Reports, New Record Releases, Swiss News Round-up, Stock Market Report

PRGR'S IN ENGLISH

12 Sun : Swiss Sunday Special
Bells of Switzerland
In His Name
Melody Train — Mailbag Show
18 Mon-Fri : Echoes from Switzerland (Tues: Sports Round-up)
29 Mon : Swiss Shortwave Merry-Go-Round
Tues : Swiss Concert Hall
Wed : Down Memory Lane and Songs of Yesteryear
Thurs : Swiss Gazette
Fri : Jazz Panorama
60 End of tr.

PRGR'S IN SPANISH

Each tr 45 min — All tr's begin with T.S. and N — Features:
00 Announcement
01 Señal horaria (T.S.)
02 Boletín de noticias (N)
10 Mon : La semana en Suiza o Comentario político (The Week in Switzerland or Political Commentary)
Tues-Sat : Comentario político (Political Comm.)
15 D : Intermedio Musical (Musical Interlude)
18 Mon : Resultados deportivos (Sports Round-up)
Tues : Pinceladas de actualidad (Topical Reports)
Wed : Apuntes económicos (Economic Talk)
Thurs : Pinceladas de actualidad (Topical Reports)
Fri : Revista femenina o Panorama internacional (Feminine Topics of International Review)
Sat : Pinceladas de actualidad (Topical Reports)
Sun : Miscelánea semanal (Weekly Magazine)
24 Sun : Músicos suizos (Swiss Musicians)
25 Mon : Música popular suiza (Swiss Folk Music)
26 Wed : Mensajes musicales (Request Prgr.)
28 Tues : Carrusel musical (Light Music)
Thurs : Fantasiá musical (Music Prgr.)
Fri : Música popular suiza (Swiss Folk Music)
Sat : Mensajes musicales (Request Prgr.)
45 End of tr.

PRGR'S IN PORTUGUESE

Each tr 45 min — All tr's begin with T.S. and N — Features:
00 Announcement
01 Sinal Horário (T.S.)
02 Noticiário
11 Mon : A. Esportivo e Comentário Político (Sports Roundup and Political Commentary)
Tues-Fri : Comentário político (Political Commentary)
Sat, Sun : Intermédio Musical (Musical Interlude)
15 Mon-Fri : Ecos da Suíça (Echoes from Switzerland)
Sat : Tribuna da Imprensa (Press Review)
Sun : Aqui Suíça (Switzerland Calling)
27 Sat : Revista da Semana (This Week in Retrospect)
29 Mon : Música Popular Suíça (Swiss Folk Music)
Tues : Caixa Postal 3000 Berna 16 (Request Prgr.)
Wed : Concertos Musicais (Classical Music)
Thurs : Suíça Turística (Tourism in Switzerland)
Fri : Aquarela Musical (Light Music)
45 End of tr.

PRGR'S IN ARABIC

Each tr 30 min — All tr's begin with T.S. and N — Features:
00 Announcement
01 T.S.
02 News
10 Mon-Fri : Commentary
Sat : Swiss Magazine
Sun : Mailbag Show
15 Mon : Swiss Magazine
Tues : We have Chosen for You
Wed : Swiss Magazine
Thurs : Around and About in Switzerland
Fri : Request Prgr.
30 End of tr.

PRGR'S IN FRENCH (for Africa)

Each tr 30 min — All tr's begin with T.S. and N — Features:
00 Announcement
01 Signal horaire (T.S.)
02 Informations (N)

Switzerland Calling

SRG
SSR
SBC

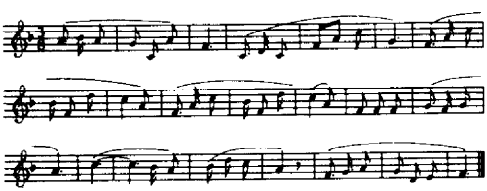
On the air to the world in English, German, French, Italian, Spanish, Portuguese, Arabic and Esperanto: World and home news, political commentaries, actuality reports, entertainment and documentary features - Serious, light and Swiss country music - Special programmes for DX-ers and jazz fans. For your free copy of «Switzerland Calling», SBC's illustrated programme schedule, published in spring and autumn, write to:

SBC European and Overseas Services, CH 3000 Bern 16, Switzerland

European and Overseas Services of the Swiss Broadcasting Corporation

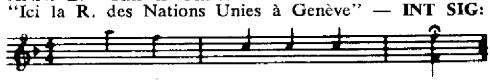
10 Mon-Fri : Page de la vie du monde (Political Comm.)
Sat : Le monde cette semaine (Weekly Review)
Sun : Culture-Magazine (Cultural Magazine)
15 Mon : Suisse-Afrique (Swiss-African Relations)
Tues : Enseignement (Education)
Wed : Médecine et Santé (Health Magazine)
Thurs : Science et Technique (Science and Technique)
Fri : Enquêtes et Documents (Investigations and Documents)
Sat : Courrier de l'auditeur (Mailbag Show)
30 End of tr.

SUNSPOT NUMBERS
Reception and tr. times are as follows: 6th/7th and 8th/9th of December — 10th/11th and 5th/6th of January — 7th/8th and 9th/10th of February — 7th/8th and 9th/10th of March — 4th/5th and 6th/7th of April — 9th/10th and 4th/5th of May.
In English: During the last 5 min of "Swiss Shortwave Merry-Go-Round": Mon: 07.50(IV), 09.35(V), 10.50(I), 12.20(II), 14.05(VI), 15.50(VII), 19.05(I), 20.20(II); Tues: 02.20(X), 05.35(XI).
In Spanish: Right after the Prgr: "Mensajes musicales" Sat: 14.40(III), 16.55(VIII), 22.10(III); Sun: 01.10(VIII), 03.55(IX).
INT-SIG: "Lueget vo Bärge und Tal" (trad. Swiss-German Folk Song, played on a music-box:



V: Correct reports to SBC's European and Overseas Services, CH-3000 Bern 16, Switzerland, verified by QSL-card or letter. IRC if airmail reply required.
PUB: Prgr. schedule "Switzerland Calling" (edited twice a year, in spring and autumn), also in German, French, Spanish, Portuguese and Arabic; report cards and report sheets (airletters) free upon request. No DX-Club, no pennants, no pen-pals.

UNITED NATIONS BROADCASTING FROM GENEVA
ADDR. R. des Nations Unies, Palais de Nations, Geneva. **Cable:** Omnipress. **Telex:** 22.212. **Te:** 346011, Ext. 2328/2566. **L.P:** Dir. Inf: Vacant. Chief, Radio & Visual Services: G. Grégoire.
FOREIGN SCE: Russian (Mon-Fri) on 7443kHz (Prangins) during UN General Assembly periods, otherwise Fri only 18.30-18.40 — UN Prgr. in Arabic (Mon-Fri) during UN General Assembly periods, otherwise Mon only 19.20-19.30 on 11800/15400/17770kHz (via RAI) and 18.45-19.00 on 21620kHz (via ORTF):
ANN: E: "This is United Nations R. in Geneva". F: "Ici la R. des Nations Unies à Genève" — **INT SIG:**



V. by QSL-card or letter.

BROADCAST FROM THE INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA
ADDR: Int. Comm. of the Red Cross, 7 Ave. de la Paix, 1211 Geneva 1 — **L.P:** Dir. P. Bassett.
In Peace time: ICRC organizes occasional test transmissions (6 times a year) on the frequency of 7210kHz 41.61m by courtesy of Swiss Short Wave Service at the following hrs: 06.00-07.00, 11.30-12.30, 17.00-18.00, 23.00-24.00 in **French, English, Spanish.** Prgr's consist of ICRC-actualities and tracing service.
1970: January 19, 21, 23; March 16, 18, 20; May 25, 27, 29; July 20, 22, 24; September 21, 23, 25; November 16, 18, 20.
In times of crisis: ICRC broadcast programmes containing information regarding prisoners of war and civilians on the same frequency as well as on others lent by the Swiss authorities, up to 12 hours per day — **ANN:** E: "This is R. Inter-Red-Cross calling". F: "Ici R. Inter-Croix-Rouge", Sp: "Aqui R. Inter-Cruz-Roja". **V.** by QSL-card. Recordings accepted.

USSR

L.T: See time table — **Pr.L:** Russian, Ukrainian, Byelorussian, Uzbek, Tatar, Kazakh, Azerbaidjanian, Armenian, Georgian, Lithuanian, Moldavian, German, Estonian, Latvian, Chuvash, Tadjik — **EC:** a/c 50 (yes).

STATE COMMITTEE FOR BROADCASTING AND TELEVISION (Gov.)
ADDR: Pjatnitskaja ulitza 25, Moscow. **Cable:** Moskva Radio. **Te:** 33-63-56 — **L.P:** Pres. of Broadc. Committee: N. N. Mesyatsev. 1st Vice-Pres: E. N. Mamedov. Vice Pres. (TV): G. A. Ivanov. Vice-Pres. (Radio): A. A. Rapokhin. Vice Pres. (Constr): L. S. Maksakov. Dir. Tec. (Radio): V. F. Zjelesova. Chief Foreign Relations: E. Molchanov.

STATIONS
LONG AND MEDIUM WAVES
Stations in bold types also use shortwave.
1)=Rel. R. Moscow prgr. I — 2)=Rel. R. Moscow prgr. II — 3)=Rel. R. Moscow prgr. III — 4)=Rel. R. Moscow prgr. IV.

Station	kHz	m	kW	H. of tr.
Ufa (Bashkir ASSR)	151	1986.8	50	02.00-21.00[2]
Petropavlovsk (RSFSR)	155	1935.5	10	16.30-08.00, 19.00-16.00
Blagovechensk	155	1935.5	50	09.30-15.30
Tashkent (Uzbekistan)	164	1829.3	50	00.00-19.30
Moscow II (RSFSR)	173	1734.1	500	02.00-01.00[2]
Chita (RSFSR)	173	1734.1	20	21.00-16.00
Alma-Ata (Kazakhstan)	182	1648.4	50	00.00-20.00
Petropavlovsk (RSFSR)	182	1648.4		18.30-13.00
Tbilisi (Georgia)	191	1570.7	50	01.55-10.00, 13.00-21.03
Irkutsk (RSFSR)	200	1500	100	22.00-16.00[4]
Leningrad (RSFSR)	200	1500	100	04.00-14.00[3]
Moscow	200	1500	100	
Ashkabad	200	1500		
Kazan (Tatar ASSR)	200	1500		
Blagovechensk (RSFSR)	209	1435.4	50	21.00-09.00[4]
Kiev I (Ukraine)	209	1435.4	150	02.00-10.00, 13.00-22.00
Baku (Azerbaijan)	218	1376.1	50	02.00-10.00, 13.00-22.00
Krasnoyarsk (RSFSR)	218	1376.1	50	22.57-18.00
Alma-Ata	227	1321.6	50	00.00-20.00
Leningrad I (RSFSR)	236	1271.2	100	02.00-11.00, 12.00-22.00
Tobolsk (RSFSR)	236	1271.2	50	22.00-11.00[2]
Magadan (RSFSR)	236	1271.2	20	19.00-14.00[4]
Vladivostok I (RSFSR)	245	1224.5	100	19.56-10.00
	(Rel. "Majak": 16.30-19.00)			
Dushanbé (Tadjikistan)	254	1181.1	50	00.00-21.00
Kazan (Tatar ASSR)	254	1181.1	100	02.00-14.00
Erevan (Armenia)	254	1181.1		
Chita	263	1140.7		24h
Yakutsk	263	1140.7	10	21.00-16.00[4]
Moscow I (RSFSR)	263	1140.7	150	02.00-22.00
Novosibirsk (RSFSR)	272	1102.9	100	23.00-18.00
Minsk II (Byelorussia)	281	1067.6	100	02.00-23.00
Ulan-Ude	281	1067.6	10	22.00-17.00
Orenburg	300	1000	20	02.00-20.00[2]
Barnaul (RSFSR)	310	967.7	20	23.00-19.00[4]
Moscow II	320	937.5	20	05.00-20.00[1]
Khabarovsk (RSFSR)	335	895.5	150	19.30-15.00
Saratov (RSFSR)	340	882.4	100	02.00-07.00, 16.00-22.00
Dushanbé (Tadjikistan)	350	857.1	20	00.00-18.00[1-2]
Yuzno-Sakhal. (RSFSR)	360	833.1	100	19.25-21.45, 01.00-11.30
Yerevan (Armenia)	362	828.7	50	02.00-11.30, 13.00-22.00
Ashkhabad (Turkmenia)	375	800.0	10	02.00-11.00, 13.00-21.00
Vladivostok (RSFSR)	380	789.5	50	19.00-18.00[4]
Kharkow (Ukraine)	385	779.2	50	15.00-22.00[2]
Moscow II	388	773.2	20	02.00-14.30[2]
Omsk (RSFSR)	394	760.4	50	23.57-19.30[4]
Tashkent II (Uzbekistan)	400	750.0	50	00.00-20.03
Minsk II (Byelorussia)	400	750.0	50	02.00-14.00[3], 15.00-23.30
Tula	529	567.1	20	
Cheboksary	530	566.0		
Odessa (Ukraine)	548	547.4	150	02.00-01.00[2]
Vladivostok II (RSFSR)	548	547.4	100	*
Volgograd (RSFSR)	557	538.6	10	02.00-21.00
Riga I (Latvia)	575	521.7	100	03.00-23.00
Ijevsk (Udmurt ASSR)	584	513.7		
Krasnoyarsk	593	505.9	10	23.00-22.00 (rel. Majak)
Ordzonikidze (Osset ASSR)	593	505.9	10	02.00-22.00[2]

Station	kHz	m	kW	H. of tr.
Frunze (Kirghizia)	611	491.0	25	00.00-20.00
Petrozavodsk (Karelian ASSR)	611	491.0	100	02.00-21.03
Krasnodar (RSFSR)	611	491.0	20	01.00-22.00[2]
Vladivostok (RSFSR)	629	476.9	100	15.00-07.30
Simferopol (Ukraine)	647	463.7	100	02.00-12.00, 13.00-22.00
Murmansk (RSFSR)	656	457.3	150	02.00-22.00
Grosny	656	457.3		02.00-21.00[2]
Kaunas (Lithuania)	665	451.1	100	02.00-23.30
Tsjernovtsy (Ukraine)	674	445.1	100	03.00-12.00, 13.45-22.00
Ufa (Bashkir ASSR)	692	433.5	100	01.00-12.00, 14.30-20.00[3]
Donetsk (Ukraine)	710	422.5	150	02.00-12.00, 13.00-22.00
Vladivostok (RSFSR)	710	422.5	100	21.30-07.00[4]
Tallinn (Estonia)	710	422.5	150	03.00-23.00
Chelyabinsk (RSFSR)	737	407.1	50	01.00-12.00, 16.00-22.00[2]
Khanty Mansyisk	737	407.1	50	
Tselinograd	746	402.1	20	00.00-20.00
Odessa (Ukraine)	764	392.1	10	01.55-12.00
Voronej	773	388.1	20	
Kiev II (Ukraine)	782	383.6	100	02.00-12.00, 13.00-15.30
Karaganda (Kazakhstan)	782	383.6	20	00.00-20.00
Astrakan	791	379.3	50	
Leningrad II (RSFSR)	800	375.0	100	03.00-22.00
Dushanbé (Tadjikistan)	800	375.0	100	08.00-18.30
Kuibyshev (RSFSR)	809	370.8	10	01.00-13.00, 15.30-22.00[2]
Gorkij (RSFSR)	827	362.8	20	03.00-22.00[2]
Kharkov (Ukraine)	836	358.9	20	16.00-22.00
Vinnitza (Ukraine)	836	358.9		
Kazan (Tatar ASSR)	845	355.0	10	03.00-11.00, 13.00-22.00
Elista (Kalmyk ASSR)	845	355.0		
Yerevan (Armenia)	863	347.6	100	02.00-11.00, 11.50-22.05
Moscow (RSFSR)	872	344.0	150	04.00-03.00
Stavropol (RSFSR)	881	340.5	20	02.00-22.00[2]
Uzhgorod (Ukraine)	890	337.1	100	02.00-12.00, 13.00-22.00
Ioshkhar-Ola (Mari ASSR)	899	333.7	50	
Makhachkala	917	327.2	50	02.00-22.00
Ivanovo	926	324.0	10	
Lvov (Ukraine)	935	320.9	300	02.00-12.00, 13.00-01.00
Rostov/Don (RSFSR)	944	317.8	20	06.00-22.00[2]
Smolensk (RSFSR)	971	309.0	150	07.00-16.18[1]
Kalinin	971	309.0	20	
Yuzhno-Sakhal (RSFSR)	973	308.3	20	19.25-21.45, 01.00-13.05
Garm	980	306.1	20	
Krasnoyarsk	980	306.1	100	
Kishinijev (Moldavia)	998	300.6	100	03.00-11.00, 12.00-23.00
Baku (Azerbajan SSR)	1016	295.3	100	14.00-20.00, 01.55-10.00
Tomsk (RSFSR)	1025	292.7	200	23.00-12.00, 17.00-22.00[2]
Tallinn I (Estonia)	1034	290.1	100	03.00-22.00
Tbilisi (Georgia)	1043	287.6	100	02.00-21.00
Saransk (Mordvin ASSR)	1061	282.8	50	03.00-21.03[2]
Alma Ata (Kazakhstan)	1070	280.4		
Dnjepropetrovsk	1070	280.4	20	03.00-12.00, 13.00-22.00
Kysyl (Tuvin ASSR)	1079	278.0	50	12.00-23.00†
Perm (RSFSR)	1088	275.5	20	00.58-20.00
Vilnius II (Lithuania)	1106	271.2	100	04.00-23.30
Kaliningrad (RSFSR)	1115	269.1	20	02.00-22.00[1]
Khanty Mansyisk	1115	269.1	50	
Leningrad III (Vyborg)	1124	266.9	20	03.00-22.00
Riga (Latvia)	1142	262.7	50	03.00-02.00[2]
Vladivostok (RSFSR)	1151	260.9	100	20.00-00.00, 08.30-14.30[2]
Dushanbé (Tadjikistan)	1160	258.6	50	
Odessa (Ukraine)	1169	256.6	50	02.00-15.30††
Kursk (RSFSR)	1214	247.1	2.5	
Tallinn II (Estonia)	1214	247.1	200	02.55-23.00
Kiev (Ukraine)	1241	241.7	150	16.00-24.00
Khabarovsk (RSFSR)	1250	240.0	100	22.30-23.00, 00.00-08.00[2]
Moscow II	1250	240.0	50	16.00-22.00[2]
Moscow III	1277	234.9	20	04.00-03.00[2-3]
Baku (Azerbajan)	1295	231.7	150	†
Simferopol (Ukraine)	1313	228.5	100	19.00-21.30
Chita (RSFSR)	1315	228.0	50	18.00-20.00
Kharkov (Ukraine)	1322	226.9	100	01.00-22.00[2]
Kohtla Järve (Estonia)	1331	255.4	20	02.55 (Sun
Pärnu (Estonia)	1331	225.4	20	03.55)-21.03
Alma Ata (Kazakhstan)	1340	223.9		00.00-18.00
Kuldiga (Latvia)	1349	222.4	20	
Madona (Latvia)	1349	222.4	20	03.00-21.03,
Valmiera (Latvia)	1349	222.4	20	21.05-22.00
Kuibychev (RSFSR)	1349	222.4		
Tbilisi (Georgia)	1349	222.4		
Moscow II	1358	220.9	50	20.00-04.00[2]
Petropavlovsk (RSFSR)	1367	219.5	30	
Vladivostok (RSFSR)	1376	218.2	10	20.00-08.30, 14.00-16.00[2]
Vinnitza (Ukraine)	1376	218.2	50	16.00-22.00
Kaliningrad	1385	216.6		05.00-15.00[3]
Uralsk (RSFSR)	1385	216.6	50	
Kaunas (Lithuania)	1385	216.6	150	04.00-15.00[3], 15.00-23.00†
Tartu (Estonia)	1403	213.8	20	02.55-21.03
Tiraspol (Ukraine)	1403	213.8	10	16.00-22.00
Orissare (Estonia)	1403	213.8	10	02.55-21.03
Riga (Latvia)	1421	211.1	10	03.00-22.00
Uzhgorod (Ukraine)	1430	210	50	†
Syktyvar (Komi ASSR)	1439	208.5	150	06.30-16.18, 16.30-22.00[1], 02.00-06.30[2]
Simferopol (Ukraine)	1466	204.6	20	17.00-21.03
Riga III (Latvia)	1484	202.2	5	03.00-22.00
Leningrad (RSFSR)	1493	200.9	50	16.30-00.30
Gomel (Ukraine)	1493	200.9	20	02.00-11.00
Dushanbé (Tadjikistan)	1502	199.7	10	00.00-19.00
Tallinn (Estonia)	1511	198.5		
Aktjubinsk (Kazakhstan)	1511	198.5	50	00.00-20.00
Kustanai (Kazakhstan)	1520	197	10	00.00-18.00
Moscow	1525	196.7		
Vinnitsa (Ukraine)	1546	194	50	15.30-21.30
Karaganda (Kazakhstan)	1546	194.0	10	00.00-20.00
Moscow	1550	193.5		09.30-15.00[4]
Vilnius (Lithuania)	1554	193.0	20	04.00-23.30
Tomsk RSFSR)	1554	193.1	20	
Leningrad (RSFSR)	1562	192.1		04.00-20.00[3]
Leningrad	1570	191.1	10	03.00-11.00, 20.00-24.00
Khabarovsk (RSFSR)	1586	189.1	50	19.00-17.00
Irkutsk (RSFSR)	1594	188	50	

*) 20.30-21.00, 02.00-00.03 (Sun 04.00-05.00); relay Moscow 2nd Prgr: 19.00-20.30, 23.30-02.00, 03.00-07.30; †) Relay Foreign Sce.

Shortwaves: For R. Moscow and Regional Shortwave st's: Please refer to the pages: Shortwave Stations of the World.

HOME SERVICES

RADIO MOSCOW

1st Prgr: D 02.00-22.00 to European part of Russian Federation.

On 173kHz (Moscow), 236 (Leningrad), 1115 (Kaliningrad), 1439kHz (Syktyvkar): 02.00-22.00; On 971kHz (Smolensk): 06.30-16.00. On **5910kHz:** 02.00-22.00. On **7360kHz:** 02.00-04.10 & 16.00-19.30. **In 31 m.b.** (9470-9490kHz): 02.00-05.15 & 15.00-21.00; **In 25 m.b.** 11630-12070kHz): 02.00-21.00.

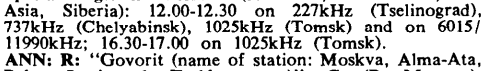
N: 02.03, 03.03, 05.00, 07.00 (W), 08.00 (Sun), 09.00 (W), 12.00, 16.00, 19.00, 20.50 — **Press review:** 04.00 (Pravda), 06.00 (Central papers) — **Prgr. preview:** 04.35 (W), 05.15, 09.10 (W), 10.45 (for the coming day), 16.18. **Comm:** 15.30 (Mon-Fri), 16.20 (W), 07.20 (Sat) — **L.L:** 13.50 French (Wed), German (Tues); 13.15 English (Fri). **Youth Prgr:** "Yunost" 14.00 (W), 21.03 (Mon-Fri). **R. University of Marxism-Leninism:** Mon-Fri 15.40-16.00; Sat 08.00-08.20, 14.00-14.15, 19.35-19.50 — **Gymnastics:** 02.15 (W), 03.15 (W), 04.10 (W), 04.40 (Sun), 08.10 (W). **1st Prgr. A:** 21.00-16.00, 19.00-21.00 to Far East/Ea. Siberia.

On 155kHz (Blagovechensk): 18.00-19.00; On 173kHz (Chita): 21.00-16.00; On 200kHz (Irkutsk): 22.00-16.00; On 236kHz (Magadan):19.00-14.00; On 263kHz (Yakutsk): 21.00-16.00; On 360kHz (Yuzno-Sakhalinsk): 21.00-14.30; On 380kHz (Vladivostok): 19.00-18.00; On 395kHz (Omsk): 19.00-09.30; On 710kHz (Vladivostok): 23.30-07.00; On 1079kHz (Kyzyl): 22.00-08.00; On 1550kHz (Khabarovsk): 09.30-16.00.

In 41 m.b. (7270-7325): 18.00-22.30; **In 31 m.b.** (9375-9790kHz): 18.00-24.00 & 13.30-16.00; **In 25 m.b.** (11705-12060kHz): 19.00-16.00.

N: 21.00, 00.00, 01.00, 03.00, 05.00, 07.00 (W), 09.00 (Mon-Fri), 12.00, 18.00, 19.00, 20.50 — **Press review:** (Pravda and Isvestiya) 02.00, 04.00, 06.00 (Central). **Comm:** 02.15 (Mon-Fri), 03.15 (Sat/Sun), 04.30 (W), 18.30 — **Prgr. preview:** 21.03, 04.10 (Mon-Fri), 04.30 (Mon-Fri) — **Youth Prgr:** "Yunost": 08.00, 12.15 (Mon, Wed, Sat), 14.00 (Tues/Thurs/Sat) — **R. University of**

Marxism-Leninism: 08.00-08.20 (Sat), 09.10-09.30 (Mon-Fri), 11.45-12.00 (Sat).
1st Prgr. B: 23.00-24.00, 02.00-19.00 to We. Siberia; 00.00-01.59 to Ural/We. Siberia/Kazakhstan/Ce. Asia. On 218kHz (Krasnoyarsk): 23.00-18.00; On 272kHz (Novosibirsk): 23.00-02.15, 07.00-12.00, 16.00-18.00; On 310kHz (Barnaul): 23.00-18.00; On 394kHz (Omsk): 00.00-19.30; On 827kHz (Gorkij): 23.00-18.00; In **31 m.b.** (9450-9740kHz): 23.00-05.00; In **25 m.b.** (11720-11820 kHz): 23.00-15.00.
N: 23.00, 00.00, 01.00, 03.00 (Sat/Sun), 03.03 (Mon-Fri), 05.00, 07.00 (W), 08.00 (Sun), 09.00 (W), 12.00, 16.00.
Press review: 02.00 (Pravda and Isvestiya), 04.00 (Pravda), 06.00 (Central) — **Comm:** 07.20 (Sat), 08.00 (W), 16.20.
Prgr. preview: 01.50, 06.15, 16.18 — **Youth prgr.** "Yunost": 11.00 (D exc. Sat), 17.00 (Sat) — **Gymnastics:** 00.15, 01.15.
"MAJAK" (Prgr. II): 24h:
a) **For European USSR:** On 200kHz (Moscow): 02.00-14.30; On 320kHz (Moscow): 05.00-20.00; On 340kHz (Saratov): 02.00-05.15, 07.00-01.00; On 385kHz (Kharkov), 15.30-22.00; On 388kHz (Moscow): 02.00-14.30; On 400kHz (Minsk): 15.00-23.30; On 530kHz (Tula): 02.00-22.00; On 548kHz (Odessa): 01.00-24.00; On 809 kHz (Kuibyshev): 24 hrs; On 827kHz (Gorkij): 04.00-22.00; On 926kHz (Ivanovo): 02.00-21.00; On 1061kHz (Saransk): 03.00-14.00, 16.00-21.00; On 1277kHz (Moscow): 20.30-03.00; On 1322kHz (Kharkov): 01.00-22.00; On 1586kHz (Tartu): 03.00-02.00.
b) **For Caucasia:** On 548kHz (Odessa): 15.00-24.00; On 593kHz (Ordzonikidze): 02.30-14.30, 16.00-22.00; On 611kHz (Krasnodar): 01.00-03.00, 06.00-22.00; On 656 kHz (Grozny): 02.00-03.30, 06.00-13.00, 15.30-21.00; On 881kHz (Stavropol): 02.00-03.30, 07.00-13.00, 18.00-22.00; On 944kHz (Rostov): 06.00-22.00; On 1043kHz (Tbilisi): 02.00-07.30, 18.30-21.00; On 1295kHz (Baku): 01.00-08.00; On 4930kHz (Erevan): 01.00-20.00.
c) **For Ural & North Caucasia:** On 155kHz (Petropavlovsk, Kazakhstan?): 02.00-21.00; On 300kHz (Orenburg): 02.00-14.00, 15.30-20.00; On 737kHz (Chelyabinsk): 06.00-11.30, 16.00-23.00.
d) **For Central Asia:** On 155kHz (Petropavlovsk, Kazakhstan): 02.00-21.00; On 350kHz (Dushanbé): 00.00-11.00, 18.00-23.00; On 375kHz (Askhabad): 04.00-13.00; On 1466kHz (Frunze): 23.00-22.00; On 6125kHz (?): 01.00-20.00.
e) **For Western Siberia:** On 593kHz (Krasnoyarsk): 23.00-22.00; On 1025kHz (Tomsk): 23.00-12.00, 17.00-22.00; On 1367kHz (Petropavlovsk, Kazakhstan): 12.30-16.30.
f) **For Eastern Siberia & Far East:** On 236kHz (Tobolsk): 00.00-08.30; On 584kHz (Svobodny): 21.00-10.30; On 629kHz (Vladivostok): 15.00-07.30; On 1010kHz (?): 19.00-13.00; On 1079kHz (Kyzyl?): 08.30-18.05; On 1150 kHz (Vladivostok): 08.30-14.30; On 1250kHz (Khabarovsk): 00.00-07.30; On 1376kHz (Vladivostok): 20.00-08.30.
Prgr. "Majak" can also be heard at various times of the day in 49, 41, 31 and 25 m.b.
N: Each half h from 21.00-19.30 (exc. 12.30) — **Press review:** 03.00 (Pravda) — **Literature prgr:** 01.10, 08.40, 14.40 — **Youth Prgr.** "Yunost": 18.05-18.30 — **Army prgr:** 11.00-12.00, 20.00-21.00.
PRGR. III (for central parts of RSFSR): On 400kHz (Minsk): 04.00-14.00; On 692kHz (Ufa): 04.00-12.00, 15.00-20.30; On 827/1277/1538kHz (Moscow): 04.00-20.30; On 1385kHz (Kaunas): 04.00-15.00; On 1493kHz (Leningrad): 04.00-20.30; On **4055kHz** (?): 04.00-20.30; On **7370kHz:** 04.00-16.00; In **31 m.b.** (9450-9775kHz): 04.00-20.30; In **25 m.b.** (11570-11805kHz): 04.00-20.30.
FM-PRGR. (Prgr. IV): 12.00 (Sat/Sun 07.00)-20.00 on 1570kHz (Leningrad) & 69.8MHz.
LOCAL PRGR. FOR MOSCOW REGION:
On 872kHz: 03.30-04.00, 08.00-08.30, 15.00-15.30 (Sat/Sun 07.30-08.00 only) and on 66.44MHz.
Special Prgr. in German (for Ural, Kazakhstan, Ce. Asia, Siberia): 12.00-12.30 on 227kHz (Tselinograd), 737kHz (Chelyabinsk), 1025kHz (Tomsk) and on 6015/11990kHz; 16.30-17.00 on 1025kHz (Tomsk).
ANN: R: "Govorit (name of station: Moskva, Alma-Ata, Baku, Leningrad, Tashkent, etc)". **G:** (R. Moscow): "Hier ist Moskau mit seiner Sendung für die Sowjetdeutsche Bevölkerung".
INT-SIG: For Home and Foreign Service:



PUB: "Programmy radio i televidenia" (weekly).

REGIONAL STATIONS

R. ALMA-ATA
L.P: Pres: K. Ussebayev.
1st Prgr. in Kazakh, Russian, German:
00.00-12.00 on 182/227/746/782/4544/4990/5260/5970/6180/9250/9380/10530kHz (01.00-02.00 not on 6180/9250 kHz), 12.00-20.03 on 182/227/4900/5970/9380/10530kHz.
N: Kazakh: 00.03, 02.00, 07.25, 10.30 (W), 12.30 (Sun), 15.00. **Russian:** 00.06, 02.07, 07.35, 12.40 (Sun), 15.10.
Press review: 03.15 — **German** (N and Prgr): Fri 04.10-04.40, Sat 10.00-10.30, Tues/Wed/Thurs 11.00-11.30.
Rel. R. Moscow: 00.30 (Sun 01.00)-01.30, 03.00-03.15, 04.00-04.15 (Press), 04.40-05.20, 06.00-06.30, 09.00-10.00, 12.00-13.00, 14.00-15.00 (Sun), 16.00-20.00 (incl. N. from R. Moscow): 01.00, 03.02, 05.00, 08.00 (Sun), 09.00 (W), 16.00, 19.00. **Prgr. for Farmers:** 01.0-02.00 on 227/9250/6180kHz in Kazakh. **N:** 01.00 — **Russian:** 12.00-14.00 on 4544/6180/5260/9250kHz (Selskaya jizn).
2nd Prgr. (Shalkar): Music and Inf. in Kazakh: 14.00-18.00 on 4544/6180/5260/9250kHz — **N: Kazakh:** 14.00, 15.00, 16.00, 17.00.
3rd Prgr. in Kazakh, Russian, German, Uighur: FM 96.9MHz. **Own Prgr's:** Kazahk and Russian 12.00-18.00, Uighhurs: D 13.00-14.00, German: Fri/Sun/Mon 12.30-13.10.
Ann: Kazakh: "Almatydan söilep turmys". Russian: "Govorit Alma-Ata". German: "Hier ist Alma-Ata mit seiner Sendung für die deutsche Bevölkerung in Kasachstan" — **INT-SIG:** Kazakh folk song — **V.** by QSL-card. Reply in Russian. Rp.

R. ARKHANGELSK in Russian, Saami: 1st Prgr: 02.00-11.00 on 5930kHz; 13.00-21.03 on 5015kHz. **Own Prgr's:** D 05.14-05.55, 14.03-15.00, 16.00-16.55. **N:** 05.40, 14.45, 16.00.

R. ASHKHABAD — L.P: Pres: Y.Khodayev.
In Turkmenian, Russian: 00.55-09.00, 13.00-22.00 on 375/4825kHz — **Turkmenian:** 01.00-03.00, 03.15-04.00, 04.15-05.40, 07.00-08.00, 13.00-15.00, 16.00-18.00 — **Ann:** Turkmenian: "Gepleyär Ashkhabad" — **V.** by letter. Rep. in Russian. Rp.

R. BAKU. In Azerbaidjan, Russian, Armenian:
1st Prgr: D 01.55-11.00, 12.30-22.00 on 218/4958kHz, 01.55-04.00, 05.00-11.00 also on 9490kHz.
N: Azerbaidjan: 02.00, 09.00, 12.30, 15.00, 18.00.
N. in Russian: 06.45, 16.10, 18.15.
Prgr. in Armenian: 07.15-08.00, N: (Rel. R. Yerevan) 15.40 — **2nd Prgr:** On 4958kHz 14.00-20.00 — **Ann:** Azerbaidjan (Home and Foreign Sce.): "Danishir Baku". **V.** by QSL-card.

R. BARNAUL (Altai):
1st Prgr: 00.00-17.00 on 310kHz/FM — **Own Prgr's:** 01.10-02.00, 12.00-14.00. **German** (for Kulunda-Zone): Wed 13.20-13.43.

R. CHELYABINSK: In Russian, Bashkirian, German:
1st Prgr: On 737kHz: 00.55-12.00, 12.30-21.03. **Own Prgr's:** 02.00-03.00, 03.30-06.00, 14.00-16.00 — **N: Russian:** 02.00, 14.00. **Bashkirian:** 03.30, 15.30 — **Rel. R. Moscow:** 01.00-02.00, 03.00-03.30, 06.00-12.00, 16.00-21.00 (2nd Prgr. incl. N. at 01.00, 03.03, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 16.00, 17.00, 18.00, 19.00). **German:** 12.00-12.30 (N. Prgr).

R. DUSHANBE — **Addr:** Gorod Dushanbé, ul. Ordzonikidee 7, Dushanbé, Tadjik SSR — **1st Prgr.** in Tadjik, Russian, Uzbek: 00.00-21.00 on 254/4635kHz — **N: Tadjik:** 00.04, 05.50, 11.50, 16.00, 17.00. **Russian:** 04.45, 14.00. **Uzbek:** 13.00.
2nd Prgr: 00.00-13.00 on 800/4975kHz — **Own Prgr's:** 02.35-03.00, 06.15-07.00, 09.00-10.10, 11.00-13.00.

R. FRUNZE: 1st Prgr: In Kirghiz, Russian, German: On 611/4008kHz: Mon-Fri 00.00-09.35, 11.00-20.00, Sat/Sun 00.00-20.00. **N: (Kirghiz and Russian):** 01.00, 08.00, 13.00 — **Folklore:** 00.05 — **German:** Tues 03.45-04.00, Sat 10.40-11.00 — **Rel. R. Moscow:** 01.20-02.15, 05.45-06.15, 11.30-12.30, 17.00-20.00 — **N: (R. Moscow):** 00.30, 02.00, 03.00, 04.00 (Press), 05.00, 15.00, 16.00, 17.00 — **Ann:** "Govorit Frunze", "Hier ist Frunse".

R. KALININGRAD: 1st Prgr: 1115kHz/66.0MHz 02.00-22.00. **Own Prgr's:** D 05.11-06.00, W 11.10-11.30, Sun 10.00-11.00, 14.01-15.00 (Tues, Thurs, Sat, Sun), 15.30-17.00 (Mon, Wed, Fri). **N:** 05.15, 12.45 (navigation N), 14.30 or 15.30. Other times Rel. R. Moscow II.

RADIO KHABAROVSK (Gov.)
Addr: ulina Hapagina 80, Khabarovsk.
Home Sce. in Russian: 18.00-13.00. Freq's used 4610, 7210, 9375, 9500, 9645, 9770, 12040kHz — **ANN:** "Govorit Khabarovsk" — **V.** by QSL-card. **Re.** in English or Russian Rp.

R. KIEV — **Addr:** Ukrainske Radio, R. Centre, ul. Khreshchatik 24, Kiev, Ukrainian SSR.
Home Sce. in Ukrainian: 1st Prgr: On 209kHz: W 02.55-10.00, 13.00 (Sat 10.30)-22.00; Sun 02.55-22.00. On 782kHz: D 02.55-05.30: Mon-Fri 11.00-12.00. On 4940 kHz: 02.55-05.30, 11.00-12.00. On 12030kHz: 06.00-07.00. FM 68.5MHz: as 209kHz — **N:** 05.02, 09.00, 15.00, 18.00 — **Comm:** Sat 05.50 — **Press Review:** 05.50, 08.10, 10.50 — **Prgr. Review:** 09.10, 15.10 — **Gymnastics:** 03.15, 04.10, 04.25, 08.00 — **Rel. R. Moscow:** 03.00-05.00, 06.00-09.25 (or 09.30), 13.00-17.00 (Sun), 15.50-17.00 (W), 19.00-22.00; **N.** (R. Moscow): 03.02, 16.00, 19.00, 20.50. **Press:** 04.00, 06.00.
2nd Prgr: ("Pronym": music and information): Mon-Fri 05.30-11.00, 12.00-22.00, Sat/Sun 05.30-23.00.
On 385kHz: 05.30-06.00 (Sun 15.30), 07.00-11.00; On 836/1241/1375/1403kHz: 16.00-22.00; On 782kHz: 05.30-11.00, 13.00-15.35; On 4940kHz: 05.30-11.00, 13.00-22.00; On 6020kHz: 15.00-16.00. **N:** Mon-Fri 05.30, 07.15, 08.15, 09.15, 10.15, 13.00, 16.15, 17.15, 19.15; Sat 07.00, 08.00, 09.00; Sun 06.15, 08.10 — **Press:** 11.15 (Sun) — **Comm:** Mon-Fri 07.45, 08.45, 09.50, 10.40, 13.30; W 16.45, 20.45; Sun 07.15, 16.15, 18.20, 19.20, 20.10; D 20.20, 21.15. **LL** (for students) on 782/4940 kHz: 06.00-06.35, 15.00-15.35 English (Sat), German (Thurs).
Third Prgr. (71.77MHz): 16.00-20.00. **Ann.** (Home and Foreign Sce): "Govorit Kiyiv" — **V.** by QSL-card.

R. KISHINEV — **L.P:** Pres: I. Dobanda.
In Moldavian, Russian: 03.00-23.00 on 998kHz. **Own Prgr's:** 03.15-04.00, 04.30-06.00, 07.30-11.00, 12.44-14.00, 17.00-19.00. **Ann:** "Vorbeste Chisinau" (Moldavian), "Govorit Kishinev".

R. LENINGRAD (in Russian):
1st Prgr: 02.00-22.00 on 800/11700kHz+FM.
2nd Prgr: 02.57-12.00, 13.00-23.00 on 1124kHz+FM.
Own Prgr: 03.30-04.00 (also on 800kHz), 05.10-06.00.
N: 03.30.

RADIO MAGADAN
Home Sce. in Russian: 18.00-13.00. Freq's used: 5940, 7380, 12240kHz. **Own Prgr:** 18.30 — **Relay R. Moscow:** 19.00 (N).

RADIO PETROPAVLOVSK
Home Sce. in Russian: 18.00-13.00 on 11690kHz. Prgr. for Fishing Fleets in the Pacific on Sun at 19.00. **ANN:** "Govorit Petropavlovsk — Kamchatskiy" (on Sun: "R. Stanzia Tikhiy Okeahn" (R. St. Pacific Ocean).

R. RIGA
Addr: Latvijas Radioraidijumu un televizijas Komiteja, P.O. Box 266, Riga. **Cable:** "Latradio".
Home Sce. in Latvian, Russian:
1st Prgr: On 575/1349kHz+FM: 03.00-22.00 (Sat/Sun 23.00), from 21.03 also on 1421kHz. **N. in Latvian:** 03.17, 05.00, 07.00 (W), 09.00 (W), 10.45 (W), 13.00 (W), 18.00, 20.50 — **Press review:** 06.00 — **Concert:** 05.15, 09.10 (W), 21.03 — **Folklore:** 03.30 — **Prgr. preview:** 05.10, 14.05 — **Russian:** 08.00-09.00 (Sun 06.15-07.00, 14.30-15.00). **Rel. R. Moscow:** 03.00-03.15, 05.45-06.00, 08.00-09.00 (Mon-Fri), 12.00-13.00, 19.00-19.30.
2nd Prgr: On 1142/1421/1484kHz: 03.00-22.00 (Fri/Sat 23.00); from 21.03 also on FM. **Own Prgr:** 03.00-11.00, 14.00-19.00.
3rd Prgr (FM): W 16.00-19.00, Sun 13.00-19.00.
Ann: Latvian: "Runa Riga" — **Pub:** "Rigas Vilni" (weekly) — **V.** by QSL-card.

R. TALLIN — **Addr:** Eesti Raadio ja Televisioon, Postkast 402, Tallinn. **Te:** 292311. **Cable:** "Estradio". **L.P:** Pres: E. Jaanimägi, Vice Pres: U. Koit.
1st Prgr: 02.55 (Sun 03.25)-21.03.
Estonian: W 02.55-09.15, 10.00-16.00; Sun 03.25-08.00, 09.15-16.00; D 16.30-21.03 on 1034/6085kHz; W 02.55-05.45, 06.00 (Fri 07.00)-14.00, 15.00-21.03; **Sun** 03.25-08.30, 10.00-21.03 also on 1331/1214kHz. **N:** 03.05 (W), 03.35 (Sun), 04.30 (W), 05.00 (exc. Mon), 07.00 (W), 08.00 (W), 10.00 (W), 12.00, 13.00 (W), 15.00 (W), 16.30, 18.00, 20.00.
2nd Prgr. on 710/1586kHz+FM: 13.30-21.30. Estonian light prgr. (05.00-13.30 rel. R. Moscow II).
3rd Prgr. (FM only): 03.00-23.00 concerts and educational prgr's. **Russian:** Own prgr's on 1214/1331/1511kHz +FM: W 05.45-06.00 (Fri 07.00), 14.00-15.00; **Sun** 08.30-10.00 — **N:** 14.00 (W). **V.** by QSL-card.

WORLD PUBLICATIONS
LINDORFSALLE 1. HELLERUP, DENMARK

offers you the following publications:

Improve your shortwave reception
A "how to build" handbook on shortwave equipments in order to obtain the best possible s.w. reception. Price: Da.Kr. 18.50, US $2.75, £0/19/0, DM 10.85, Sv.Kr. 13.75. Extra for transport: Da.Kr. 1.75, US $0.25, £0/1/4, DM 1.00.

Short Wave Antennas
This handbook enables you to choose the best antenna for your purpose and consequently give you the best possible reception. Price: Da.Kr. 9.75, US $1.25, £0/10/0, DM 6.00, Sv.Kr. 7.50. Extra for transport: Da.Kr. 1.50, US $0.25, £0/1/6, DM 1.00.

The Radio TV Constructors Handbook
A "how to build" handbook containing descriptions of many different up-to-date equipments. Price: Da.Kr. 29.75, US $4.35, £1/10/10, DM 17.50, Sv.Kr. 20.00. Extra for transport: Da.Kr. 2.50, US $0.35, £0/2/6, DM 1.30.

Transistors in Practice
Theory, Practice and "how to build" descriptions. Price: Da.Kr. 29.75, US $4.35, £1/10/10, DM 17.50, Sv.Kr. 20.00. Extra for transport: Da.Kr. 2.00, US $0.30, £0/2/3, DM 1.20.

How to build TV antennas
You can easily save money by building your own TV-antenna – or improve your TV-reception by help of the descriptions etc. in this handbook. Price: Da.Kr. 16.50, US $2.50, £0/17/10, DM 10.00, Sv.Kr. 12.50. Extra for transport: Da.Kr. 1.65, US $0.25, £0/1/9, DM 1.00.

How to improve your TV-reception
You can easily correct many faults or irregularities in connection with your TV-reception by help of the illustrated descriptions in this handbook. Price: Da.Kr. 7.00, US $1.00, £0/8/0, DM 4.75, Sv.Kr. 2.00. Extra for transport: Da.Kr. 1.50, US $0.25, £0/1/6, DM 1.00.
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R. TASHKENT — Addr: Uzbek Radio, ul. Khorezmskaya 49, Tashkent, USSR. **L.P:** Pres: U. Y. Ibragimov. **1st Prgr. in Uzbek, Tadjik, Russian, Uighur, Kazakh, Tatar:** 00.00-18.00 (18.00-19.30 rel. Moscow) on 164/5925kHz — **N:** Uzbek: 00.03, 02.15, 07.00, 10.00, 13.00, 17.00. Kazakh: 12.30. Tadjik: Tues/Thurs/Sat 03.45. Tatar: Tues/Thurs/Sat 03.53. **Prgr. in Uighur:** 12.30-13.30, 14.30-15.00, 15.30-16.00 — **Folk music:** Kazakh: 13.20 (Wed), 11.20 (Mon), 07.10 (Fri). Tatar: 13.20 (Mon/Fri), 11.00 (Mon). Uzbek: 00.15, 02.25, 03.30, 04.10 (Fri), 04.30, 05.30, 07.10, 10.10 (Mon/Tues), 12.10 (Tues/Thurs/Fri) 13.20 (Tues/Thurs), 14.30 (Tues/Wed/Thurs), 16.20, 17.15 — **N.** (from R. Moscow): 01.00, 02.00, 03.00, 04.00, 05.00, 06.00, 09.00, 16.00, 18.00, 19.00.
2nd Prgr. (in Uzbek, Tadjik, Russian) on 400kHz: 00.00-19.30. **Folk music:** Uzbek: 13.00, 14.30, 15.40 (Sun), Tadjik: 14.00, 15.00 (Sun), Tatar: 15.40 (Sat). **Ann:** "Tashkentdan gapiramis" — **Int-Sig:** See Foreign Service.

R. TBILISI — L.P: P. Yu Shamotava.
In Georgian, Russian, Adshar, Ossett: On 191/5040kHz: 01.58-10.00, 14.00-21.03 — **Own Prgr's:** 02.00-03.00, 03.30-04.00, 04.20-10.00, 14.00-15.00, 16.00-20.00.

R. TSELINOGRAD (Kazakhstan)
Home Sce. in Russian, Kazakh, German on 227/782kHz: 00.00-20.00. Own prgr's: D 01.45-02.00 (N, Press review), 02.15-03.00, 12.00-14.00 (N, prgr) — **German:** Wed Fri 04.10-04.40, Tues, Thurs, Sat 11.30-12.00 (R. Alma-Ata); D 12.00-12.30 (R. Moscow).

R. VILNIUS — Addr: Lietuvos TSR Radijas, Konarskio 49, Vilnius — **1st Prgr. (Lithuanian):** On 665kHz: 03.55-21.00. **N:** 04.00 — **2nd Prgr. in Lithuanian, Polish, Russian:** On 1106/1554kHz: 03.55-21.00. **N:** 14.00, 19.30. **Polish:** 18.30-19.00 — **Russian:** 15.25-16.00 — **Ann:** Lithuanian: "Kalba Vilnius". Polish: "Tu Vilnius". **V.** by QSL-card.

RADIO VLADIVOSTOK
Home Sce. in Russian: 18.00-13.00 on 4485, 7210, 7380kHz. **Ann:** "Govorit Vladivostok".

R. YEVERAN — Addr: Armenian Radio, Mravian St. 5, Yerevan 25. **Te:** 25272 — **L.P:** Dir. Gen: M. M. Davtian. Dir. Tec: A. Blkian — **1st Prgr. in Armenian, Azerbaidjan, Russian:** 02.00-22.00.
Armenian: On 254kHz+66.22MHz: 02.00-12.30, 13.00-21.03 (Sat/Sun 02.00-22.00); On 4040kHz: 03.00-12.30, 13.00-21.03 (Sat/Sun 03.00-22.00); On 7270kHz: 02.00-09.00 (Sun 02.00-06.00, 07.30-10.00).
Russian: On 254/4040/7270kHz+FM: D exc. Mon 05.25-05.32, 14.15-14.30 (exc. Sat/Sun); Fri 16.30-17.00; Sat 07.40-08.00; Sun 11.30-12.00; 1st and 3rd Fri 03.43-04.00.
Azerbaidjan: Tues/Thurs/Sat: 05.38-05.45 on 254/863/4040/7270kHz.
N: Armenian: 03.20, 08.10, 10.30, 13.00, 15.55, 18.30, 19.53 — **Azerbaidjan:** 14.25-14.30 (N); 04.40-05.00 (Fri) — **Russian:** 07.25-07.30 — **Prgr: for Azerbaidjan and Gruzian workers:** Sun 11.00-11.40 — **Folklore:** 03.15, 10.00 (W) — **Local prgr. for Yerevan:** 13.30-14.00 on 362/4040kHz. **Rel. R. Moscow:** 02.00-03.00, 20.00-22.00 (incl. **N:** 02.03, 20.50).
2nd Prgr: Armenian: 10.00-13.30, 14.30-18.00 on 7270 kHz. On 70.12MHz: 03.00 (Sat/Sun 02.00)-20.00.
Russian: Wed 11.00-11.30, Thurs 12.00-12.15 on 863/7270kHz — **Azerbaidjan:** D 12.50-13.50 on 863/7270kHz. **Rel. Moscow I:** 03.00-12.00, 13.00-20.15 (Sat/Sun 03.00-20.15).
3rd Prgr. in Armenian (cultural): 11.00-12.50 on 4040 kHz+FM.
Ann: "Khosum e Yerevan" — **Int-Sig:** Ringing melody from an Armenian folklore song "Garaouna" (Spring), by Komitas — **V.** by QSL-card. Reports in English, French, Armenian, Russian.

FOREIGN SERVICES

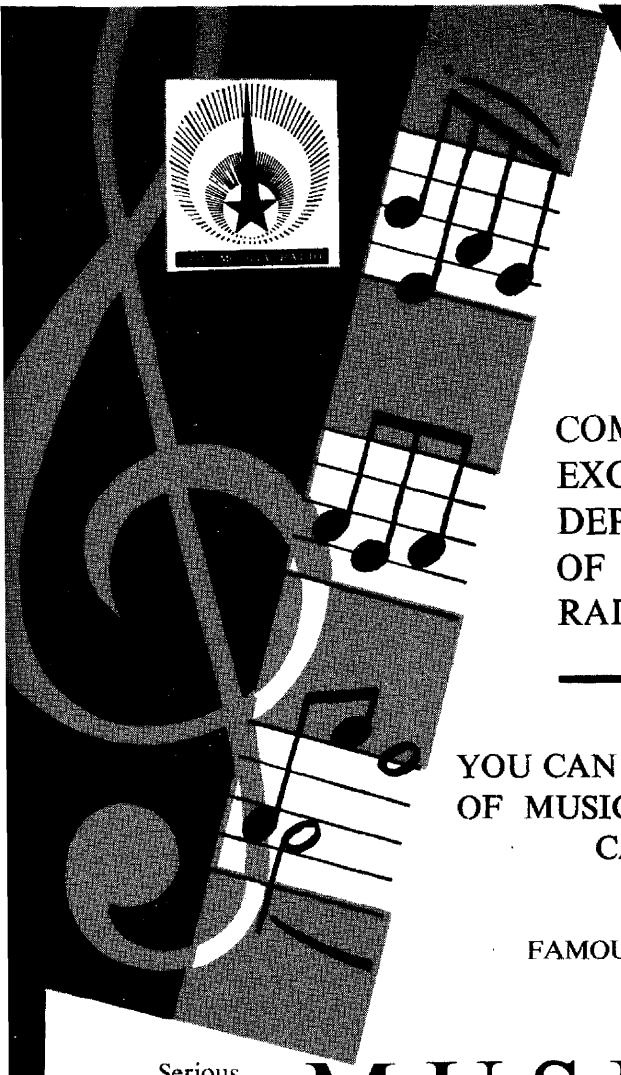
1) **In Russian:** (for Russians abroad)
BROADCASTS FROM THE SOVIET COMMITTEE FOR CULTURAL RELATIONS with fellow countrymen abroad.
ADDR: Sovietskiy komitet po kulturnym svazyam s sootechestvennikami za rubejom, Bolshoj Kharitoneyeskij pereulok 10, Moscow K-62 — **Te:** K4-60-16. **Branch in the German Democratic Republic:** Postal Addr: 108, Berlin 8 — **D.Prgr:** "Radiostantsiya Rodina".
To Europe: 06.00-07.00 on 1322kHz and in 31, 25, 19, 13, m.b.; 14.00-15.00 in 49, 41, 25, 19, 16, 13 m.b; 18.30-19.30 in 31, 25, 19 m.b; 20.00-21.00 on 1493kHz and in 49, 31, 25, 19, 16 m.b.
To the Americas: 22.30-23.30, 01.00-02.00 in 49, 41, 31, 25 m.b.
In Russian: 06.00-06.30, 14.00-15.00, 18.30-19.00, 20.00-20.30, 22.30-23.30, 01.00-01.30. Prgr's from the republics: 05.30-06.00, 19.00-19.30, 01.30-02.00.
Ann: "Govorit Radiostantsiya 'Rodina' " (Russ.).
V. by letter. Re. to Radio Station Rodina, Moscow Radio, Moscow.

MERCHANT MARINE & FISHERMEN SERVICES
a) **"Dlia, tech, kto v more":**
03.30-04.30 in 31, 25, 19, 16 m.b.
11.00-12.00 in 41, 25, 31, 19, 16, 13 m.b.
b) **"Radiostantsiya Atlantica":** (for mariners in We. At)
10.00-11.00 on 1142/1421/1484kHz (from Riga) and in 25, 19, 16 m.b.
12.30-13.30 in 25, 19, 16, 13 m.b.
15.30-16.30 in 31, 25, 19, 16, 13 m.b.
18.30-19.30 in 25, 19, 16, 13 m.b.
Ann: "Govorit radiostantsiya 'Atlantika' ".

2) In other languages:

RADIO MOSCOW: TO EUROPE

Albanian	**m.b.**
15.00-16.00	49a,41,31, 25b,19b,16b
16.30-17.00	337,49a,41,31, 25b,19b,16b
18.30-19.00	337,49a,41,31, 25b
19.30-20.00 } 20.30-21.00 }	337,49, 41,31
21.00-21.30	337,49,41,31b
21.30-22.00	337,49,41,31
Bulgarian	
17.30-18.30	49a,41,31,25b, 19b,16b
Czech/Slovak	
04.30-05.00	337,194,49,41, 31
05.00-05.30	1141,337,194, 49,41,31
05.30-06.30	1141,337,194, 49,41,31,25b
06.30-07.00	1141,337,194, 49,41,31,25, 19b
07.00-08.00	337,194,49,41, 31,25,19b
12.00-13.00	1141,337,41, 25,19,16,13
15.30-16.00	257,49,41, 31b,25b
16.00-17.00	257,210,49, 41,31b,25b
17.00-18.00	1141,257,210, 49,41,31b,25b
18.00-18.30	257,49,41,25b
18.30-19.00	257,210,49,41
19.00-19.30	210,49,41,31b
19.30-20.30	49,41,31b
20.30-21.30	257,49,41,31b
21.30-23.00	321,257,49, 41,31b
Danish	
17.00-17.30	49,41,31b
18.30-19.00	217,49,41,31b
Dutch	
17.30-18.00	49a,41,31,25b, 19a
19.30-20.00	217,49,41,31b, 25b
Finnish	
16.30-17.30 } 18.30-19.00 }	201,49a, 41,31b
French	
17.30-19.00	49a,41,31b, 25b,19b
19.00-19.30	49a,31,25b, 19b
20.30-21.00	49a,41,31b, 25b,19a
21.00-21.30	227,49a,41, 31b,25b
German	**m.b.**
06.00-06.30	227,41,31,25b
10.00-11.00	227,25,19,16, 13
16.00-17.00	227,217,49a, 41a,31b,25b, 19b
17.30-18.30	227,49a,41, 31b,25b,19b
20.00-21.00 } 21.30-22.00 }	227,217, 49,41
German for Austria	
17.00-17.30	227,49a,41,25
19.30-20.00	227,49,41
Greek (*to Cyprus)	
16.00-16.30 } 17.00-17.30 }	337,49a,41, 31,25b,19b
18.00-18.30*	347,41,31
19.00-19.30	337,49a,41,31
20.00-20.30	337,49,41,31
21.00-21.30	309,49a,41, 31,25b
22.00-22.30	337,301,217, 49,41,31b
Hungarian	
17.00-17.30	194,49b,41,31, 25b,19b
20.30-21.00	194,49,41,31
Italian (*to Western Europe)	
13.30-14.00	25,19,16,13
17.30-18.30	49a,41a,31a, 25b,19b
18.30-19.00*	227,49a,41b
19.30-20.30 } 21.00-21.30 }	194,49, 41,31
Macedonian	
18.30-19.00	49,41,31,25b
Norwegian	
18.00-18.30 } 19.30-20.00 }	201,49a, 41,31b
20.00-20.30	227
Polish	
17.00-17.30	49a,41a,31b, 25b,19b
19.00-19.30	217,49,41
21.00-21.30	321,217,49,41
Portuguese	
18.30-19.00	41a,31,25b,19b
19.30-20.00	49a,41a,31, 25b, 19b
Rumanian	
16.00-17.00	321,49a,41a, 31b,25b
17.00-18.00	321,49a,41a, 31b,25b
18.00-21.00	321,49a,41,31b
Serbo-Croat	
16.00-17.00	194a,49a,41, 31,25b,19b
18.00-18.30	210,49,41,31a
19.00-19.30	194,49,41,31
20.00-21.30	210,49,41,31b



COMMERCIAL
EXCHANGE
DEPARTMENT
OF SOVIET
RADIO

YOU CAN FIND A BIG CHOICE
OF MUSICAL PIECES IN OUR
CATALOGUES

FAMOUS RUSSIAN OPERAS

Serious
Folk
Pop

MUSIC

performed by
best Soviet
musicians

YOU WILL BE ABLE TO ENRICH
YOUR PROGRAMS INCLUDING:

INTERVIEWS WITH PROMINENT
SOVIET SCIENTISTS, CULTURAL
WORKERS

LINGUAPHONE
COURSES OF
RUSSIAN LANGUAGE

FOR TERMS AND CONDITIONS OF SUPPLY WRITE TO:

SOVIET RADIO COMMERCIAL EXCHANGE DEPARTMENT
PYATNITSKAYA 25, MOSCOW, USSR

Slovenian **m.b.**
19.30-20.00 210,49,41
Spanish
18.00-18.30 } 41a,31,
19.00-19.30 } 25b,19b
20.00-21.00* 41,31,25b,19b
21.30-22.30 41,31,25b
*) incl. Catalan 20.30-21.00 Tues/Thurs/Sat.
Swedish
17.30-18.00 201,49,41,31b
19.00-19.30 49a,41,31b

TO AFRICA

Arabic **m.b.**
18.30-19.00 41a,31a,25b, 19b
20.30-21.00 309,41a,31a, 25,19b
21.00-21.30 41a,31,25,19b
Amharic
15.30-16.00 19,16,13b
16.30-17.00 25,19,16
20.00-20.30 228,31a,25,19
Bambara
19.30-20.00 41a,31a,25,19b
French (*to Algeria) (†to Mahgreb countries)
05.00-05.15 } 41a,31,25,
06.15-06.30 } 19,16,13b
16.00-16.30 25,19,16,13
17.00-17.30 31a,25,19,16, 13b
18.00-18.30 31a,25,19,16b
19.00-19.30† 41a,31a,19b
20.30-21.00 41a,31a,25,19b
20.00-20.30† 41a,31a,25,19b
21.30-22.00* 41a,31,25,19b
22.00-22.30 41,31,25,19b
†) exc. Mon/Wed/Fri.
Foula
19.00-19.30‡ 41a,31a,25,19b
‡) Mon/Wed/Fri only.
Hausa
06.00-06.15 } 41a,31,25,
06.45-07.00 } 19,16
17.30-18.00 31a,25,19,16b
18.30-19.30 31a,25,19b,16a
20.00-20.30 41a,31a,25,19b
Lingala
18.00-18.30 31a,25,19,16, 13b
Malagasy
15.00-15.30 19,16,13b
Portuguese
05.30-06.00 41a,31,25,19, 16,13b
16.30-17.00 31,25,19,16, 13b
19.00-19.30 31a,25,19,16b
20.00-20.30 41a,31a,25,19, 16b
Shona and N'debele
10.00-10.30 19,16,13
15.00-15.30 25,19,16,13b
Somali
14.00-14.30 25,19,16,13b
16.00-16.30 25,19,16
Swahili
04.30-04.45 } 25,19, *
05.15-05.30 } 16,13b
12.00-12.30 19,16,13
17.00-17.30 228,25,19,16b
17.30-18.00 228,31a,25,19
18.30-19.00 31a,25,19
19.00-20.00 228,31a,25,19
Zulu
17.30-18.00 25,19,16,13b

TO MIDDLE EAST

Arabic **m.b.**
04.00-04.30 41,31,25,16b
12.30-13.00 31a,25,19,16, 13
13.00-13.30 41,31,25,19,16
14.00-14.30 49,41,31,25, 19,16b,13
16.00-16.30 309,41,31,25, 19b,16b
17.00-17.30 49,41,31,25
17.30-18.00 309,49,41, 31,25b
Arabic **m.b.**
18.00-18.30 309,259,228, 49,41,31,25b, 19b
19.00-20.30 309,259,49, 41,31,25b
21.30-22.00 228,41,31,25
Dari
13.00-13.30 375,25,19,16b
15.00-15.30 375,31a,25, 19b,16b
Persian
09.30-10.00 25,19,16,13
11.30-12.00 25,19,16,13
15.00-15.30 347,41a,31a, 25,19b
16.30-17.30 347,49a,41,31, 25b,19b
18.30-19.00 347,259,49a
Pushtu
13.30-14.00 375,25,19,16b
16.30-17.00 375,41a,31a, 25,19b
Turkish (*to Cyprus)
10.30-11.00 25,19,16,13
13.30-14.00 41,31,25,19,16
14.30-15.00 41,31,25,19
15.30-16.00* 309a,41,31b, 25a,19b,16b
16.30-17.30 309,41,31
18.30-19.00 309,49,41,31b

TO SO. & SO. EA. ASIA

Assamese **m.b.**
13.30-14.00 217,25,19,13b
14.30-15.00 217,31,25,19, 13b
Bengali
11.00-11.30* 25,19,16,13
12.00-12.30† 25,19,16,13
13.00-13.30† 217,25,19,16, 13b
14.00-14.30* 217,31,25,19, 13b
15.00-15.30† 217,31,25,16b, 13b
*) to India; †) to Pakistan
Burmese **m.b.**
10.30-11.00 25,19,16,13
12.30-13.00 19,16,13
14.30-15.00 25,19,16
Cambodian
11.30-12.00 } 25,19,
13.30-14.00 } 16,13b
Gujrathi
12.30-13.00 19,16,13
14.00-14.30 232,41a,31a, 25,19b,16b,13b
Hindi
11.30-12.00 25,19,16,13
12.30-13.00 232,25,19,16
14.00-14.30 31a,25,19,16b
15.30-16.30 232,41a,31a, 25,19b,16b
Indonesian
07.30-08.00 16,13
09.30-10.00 25,19,16,13
11.30-12.30 19,16,13
13.30-14.30 19,16
15.00-15.30 19,16
Kannada
11.00-11.30 19,16,13
13.00-13.30 19,16,13b
Laotian
12.30-13.00 } 25,19,
14.00-14.30 } 16,13b
Malayalam
11.30-12.00 19,16,13
13.30-14.00 15a,19,16b,13b
Marathi
12.00-12.30 19,16,13
14.30-15.00 232,41a,31a 25,19,16b,13b
Nepali
15.30-16.00 217,31a,25, 19b,13b
Oriya
11.30-12.00 } 25,19,
12.30-13.00 } 16,13
Punjabi **m.b.**
11.30-12.00 232,25,19,16, 13b
13.30-14.00 232,41a,31a, 25,19,16b,13b
Sinhalese (to Ceylon)
15.00-16.00 31a,25a,19, 16b,13b
Tamil
12.30-13.00 19,16,13
14.00-14.30 25a,19,16b,13b
Telugu
12.00-12.30 19,16,13
14.30-15.00 31a,25a,19, 16b,13b
Thai
11.00-11.30 25,19,16,13
13.00-13.30 19,16
Urdu
12.00-12.30 232,217,25, 19,16
13.00-13.30* 232,25,19,16, 13b
14.30-15.00 31a,25,19,16b
16.30-17.30* 232 31a,25, 19b,16b,13b
*) to Pakistan.
Vietnamese
22.30-23.00 41a,31a,25,19, 16b
10.30-11.30 25,19,16,13
12.00-12.30 25,19,16,13b
13.00-13.30 25,19,16,13a
14.30-15.00 31a,25,19,16
15.00-16.30 41a,31a,25, 19b,16b
16.30-17.00 41a,31a,25,19b

TO FAR EAST

Chinese **m.b.**
20.00-21.00 278,240,228, 219,217,49, 41,31
21.30-22.00 547,240,228, 219,217,49a, 41,31,25b,19b
22.30-23.00 240,49a,41b 31,25
23.00-23.30 240,49a,41, 31,25,19,16b
00.00-00.30 240,217,41a, 31,25,19h
01.00-01.30 240,217,41a, 25,19,16b
02.00-02.30 240,41a,31a, 25,19,16
03.00-04.00 }
04.30-05.00 } 240,25,19,16
05.30-06.00 }
06.30-07.00 25,19,16,13
07.00-07.30 } 240,25,19,
07.30-08.00 } 16,13
08.30-09.30 547,240,41a, 25,19,16,13
09.30-10.30 240,25,19,16
10.30-11.00 547,514,240, 49a,41a,31, 25,19b
11.30-12.00 514,240,49a. 41a,31a,25, 19,16
12.00-12.30 547,514,240, 229,49a,41a, 31,25b
12.30-13.00 547,514,240, 217,49a,41a, 31,25b
13.00-13.30 547,514,240, 49a,41,31a, 25,19b
13.30-14.00 514,240,41, 31a,25b,19b
14.00-14.30 547,514,240, 229,41,31a, 25b,19b
15.00-16.00 547,514,240, 229,41,31, 25b,19b
16.00-17.00 547,514,240, 229,219,217, 49,41,31,25b
Chinese **m.b.**
17.00-17.30 547,514,240, 229,219,217, 49,41,31,25b, 19b
18.00-19.00 514,240,229, 217,49,41,31, 25b
19.00-19.30 514,278,240, 229,219,217, 49,41,31,25b
Japanese
08.00-08.30 477,203,49a, 41a,31,25,19
08.30-10.30 477,203,49a, 41a,31,25b,19b
10.30-11.00 477,203,31, 25,16b
12.00-12.30 477,203,49a, 41a,31,25b
13.00-13.30 } 477,203,49,
14.00-14.30 } 41a,31,25b,19b
Korean
21.00-21.30 547,49,41b, 31,25b
22.00-22.30 547,49,41b, 31,25
09.30-10.00 547,41a,31a, 25,19,16,13b
10.00-10.30 547,41a,31a, 25,16b
11.00-11.30 547,203,49a, 41,31,25b
11.30-12.00 547,49a,41a, 31,25b,16b
13.30-14.00 547,49,41a, 31,25b,19b
Mongolian
06.00-06.50 19a,16,13
09.30-10.00 228,31a,25b,16
11.30-12.00 228,49a,41a, 31b,25b
13.15-14.00 228,49a,41a, 31b,25b

TO LATIN AMERICA

Portuguese **m.b.**
22.00-23.00 41d,31a,25c, 19b
00.00-00.30 } 41a,31,
02.00-02.30 } 25c,19b
Quechua
21.30-22.00 31a,25,19b
00.30-01.00 19,16
Spanish to Cuba
23.30-24.00 41a,31,25b
00.00-02.00 41a,31,25c
Spanish to So. America Prgr.I:
23.00-24.00 41a,31,25c,19a
01.00-01.30 }
02.30-03.30 } 41a,31,25c,19b
03.30-04.00 }
Prgr II:
01.00-02.00 } 19,16
02.00-03.00 }
Spanish to Ce. America
02.00-04.00 41a,31,25c

PROGRAMMES IN ENGLISH

To Europe **m.b.**
07.00-07.30 31,25,19
12.00-12.30 25,19,16,13
19.00-19.30 227,49,41, 31b,25b
20.00-20.30 49a,41,31b,25b
21.00-22.00 201,49,41,31b
22.00-22.30 227,201,49, 41,31b
To Africa
04.45-05.00 } 41a,31,25,
06.30-06.45 } 19,16,13b
10.00-10.30 19,16,13
15.30-16.00 31a,25,19, 16,13b

To Africa	m.b.
18.00-18.30	31a,25,19
18.30-19.00	31a,25,19,16, 13b
19.30-20.00	31a,25,19,16b
20.30-21.00	41a,31,25,19, 16b
21.00-21.30	41,31,25,19, 16b
22.30-23.00	41,31,25,19b
To South East Asia	
10.00-10.30 } 11.00-11.30 }	25,19, 16,13
15.00-15.30	232,41a,31a, 25,19b,16b, 13b
16.00-16.30	31a,25,19, 16b,13b
To Pacific/Far East	
11.00-11.30	477,31,25,16

To Pacific	m.b.
11.00-11.30	477,31,25
11.30-12.00	477,203,41b, 31
12.30-13.00	477,203,49, 41b,31
13.30-14.00	477,203,49a, 41b,31,25b
To North America	
Prgr I:	
22.00-22.30 } 23.00-23.30 }	41a,31, 25c
00.00-00.30	41a,31,25b
01.00-01.30	41a,31,25c
01.30-03.30	41a,31,25b
04.00-05.30	41a,31,25b
Prgr II:	
03.30-04.00	31d,25a,19,16
04.00-04.30	31a,25,19,16b
04.30-07.30	31a,25,19b,16b

REGIONAL STATIONS

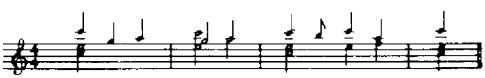
R. ALMA ATA: Kazakh: 13.30-14.00, 15.00-15.30, 16.00-16.30 on 1020/5035/6135kHz.

RADIO BAKU

Arabic	kHz
15.30-16.00	4958,6110, 9840
16.30-17.00	1313,4958, 6110
Azerbajan	
08.00-08.30	4958
13.30-14.00	4958,6110

Farsi	kHz
08.30-08.45	4958
13.00-13.30	4958,6110
14.00-15.00	4958,6110
Turkish	
15.00-15.30	4958,6110
16.00-16.30	4958,6110
19.00-19.50	6110

ANN: Azerbajan: "Danishir Baku". Arabic: "Huna Baku". Persian: "Inja Baku". Turkish: "Burasi Baku". **INT-SIG:**



RADIO DUSHANBE

Farsi	kHz
15.30-16.00	800,4975
18.00-18.30	800,4975

Tadjik	kHz
14.00-15.00 } 16.00-16.30 }	800,4975
17.00-17.30	

RADIO KIEV

English	m.b.
To Europe	
19.30-20.00*	49a,41,31b
22.30-23.00*	2421
To North America	
00.30-01.00†	41,31,25c
04.30-05.00†	41,31,25c
German	
19.30-20.00‡	49a,41,31b
Ukrainian	
16.30-17.00 } 18.00-18.30 }	49,41, 31b

Ukrainian	m.b.
19.30-20.00(Wed)	49a,41,31b
20.30-21.00	49,41
To North America	
22.30-23.00 } 23.30-24.00 }	41a,31, 25c
00.30-01.00† 03.30-04.00 }	41,31,25c
04.30-05.00† }	
*) Mon, Thurs, Sat;	
†) Tues/Fri/Sun.	

Ann: "Havoryt Kiev". E: "This is Kiev". G: "Hier ist R. Kiev" — **V.** by letter or QSL-card.

RADIO MINSK

Bielorussian	m.b.
18.30-19.00	49a,41,31b

Bielorussian	m.b.
21.30-22.00	49,41

RADIO RIGA

Latvian	m.b.
08.30-09.30(Sun)	522,222, 211
19.30-20.00(Wed)	522,222, 211
21.30-22.00 (Mon,Thurs)	522,222,

Swedish	m.b.
08.00-08.30(Sun)	522
20.20-20.50*	522
21.30-22.00†	522,222
*) Tues/ Thurs/Sat;	
†) Wed/Fri/Sun.	

RADIO TALLINN

Estonian	kHz
21.05-22.00*	1034,6085
Finnish	
08.00-09.15(Sun)	1034,6085
09.15-10.00(W)	1034
16.00-16.30(W)	1034,6085

Swedish	kHz
21.05-22.00†	1034,6085
*) Tues/Thurs/Sat;	
†) Mon/Thurs/Sat.	

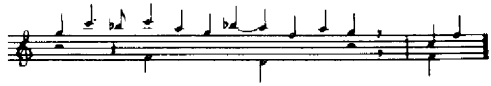
Ann: Estonian: "Sünn Tallinn; Finnish: "Täälla Tallinna"; Swedish: "Här är Tallinn" — **V.** by QSL-card and letter.

RADIO TASHKENT

Arabic	kHz
17.00-17.30*	9600,11925
English	
12.00-12.30	9600,11925
14.00-14.30	9600,11925
Hindi	
13.00-13.30	9600,11925
15.00-15.30	9600,11925
Persian	
16.00-16.30	9600,11925
17.30-18.00	9600,11925

Urdu	kHz
12.30-13.00	9600,11925
13.30-14.00	9600,11925
Uzbek	
16.30-17.30†	9600,11925
16.30-17.30*	9600,11925
*) Tues and Fri;	
†) exc. Tues and Fri.	

ANN: "This is Tashkent Calling" — **INT-SIG:** Played on Chang (Uzbek nat. instrument), Violin and Cello.



V. by QSL-card — **Pub:** Prgr. schedule free.

RADIO TBILISI

Abkhazian, Georgian and Lass
15.45-16.25 (Sun) 5980kHz

RADIO VILNIUS

English	m.b.
22.30-23.00*	41a,31,25b
Lithuanian	
22.30-23.00†	41a,31,25b

Lithuanian	m.b.
23.00-23.30	41a,31,25b
*) Mon/Sat;	
†) exc. Mon/Sat.	

RADIO YEREVAN

Arabic	m.b.
15.00-15.30	49,41,31
18.30-19.00	49,41
Armenian	**m.b.**
08.00-08.50(Sun)	31a,25,19

Armenian	m.b.
15.30-16.30	347,49,41
18.00-18.30	49,41
19.00-21.00	49,41
03.00-03.30*	19,16
*) Tues/Wed/Sat.	

a) to March 2nd; b) from March 3rd; c) exc. January-February; d) January-February only.

RADIO STATION "PEACE AND PROGRESS"

Radio Station "Peace and Progress" belongs to Soviet public organizations and broadcasts to Europe, Asia, Australia, Africa, the Near and Middle East and Latin America.
ADDR: Radio Station "Peace and Progress", Moscow, USSR. **Te:** 2336465 — **L.P:** Editor-in-Chief: L. Talanov.

SCHEDULES (for 1970):

TO EUROPE	
German	**m.b.**
15.30-16.00	227,217,41, 31,19
TO ASIA	
Chinese (Canton dialect)	
10.00-10.30	25,19,16,13
11.30-12.00	25,19,16,13
Chinese (Peking dialect)	
21.00-21.30	240,229,219, 217,41,31
22.00-22.30	240,229,219, 217,41,31,25, 19,16
23.30-24.00	240,217,49,41, 31,25,19,16
00.30-01.00	240,217,41, 31,25,19,16
01.30-02.00	240,217,41, 31,25,19,16
02.30-03.00	240,25,19,16
04.00-04.30	240,25,19,16
05.00-05.30	240,25,19,16
06.00-06.30	25,19,16,13
08.00-08.30	240,25,19,16, 13
11.00-11.30	514,210,41,31, 25,19,16,13
14.30-15.00	547.4,514, 240,49,41,31, 25,19
17.30-18.00	547.4,514, 240,229,219, 217,49,41, 31,25
19.30-20.00	514,278,240, 229,219,217, 49,41,31,25
Chinese (Shanghai dialect)	
10.30-11.00	25,19,16,13
12.00-12.30	41,31,25,19,13

Mongolian	m.b.
09.00-09.30	228.8,31,25,19
11.00-11.30	228.8,41,31, 25,19
12.45-13.15	228.8,49,41, 31,25
14.30-15.00	228.8,49,41, 31,25,19
English	
10.30-11.00	25,19,16,13
15.30-16.00	31,25,19,16
22.00-22.30	**French**
10.00-10.30	25,19,16,13
TO AFRICA	
English	
14.30-15.00	41,25,19,16,13
French	
19.30-20.00	41,31,25,19
Portuguese	
13.00-13.30	25,19,16,13
TO NEAR & MIDDLE EAST	
Hebrew	
17.30-18.00	347,41,31
Yiddish	
15.00-15.30	309,41,31,25, 19,16
TO LATIN AMERICA	
English	
00.00-00.30 (Wed, Sat)	41,31,25
Creole	
00.00-00.30	41,31,25,19
Guarani	
00.30-01.00	41,31,25
Portuguese	
00.30-01.00	41,31,25,19
Spanish	
01.30-02.00	41,31,25,19
04.00-04.30	41,31,25,19

ANN: E: "This is Radio Station 'Peace and Progress' the voice of Soviet Public Opinion". F: "Ici l'emetteur 'Paix et Progrès', la voix de l'opinion publique soviétique". G: "Hier ist der Sender 'Frieden und Fortschritt' ". P: "Fala a emissora 'Paz e Progresso!' " "Fala a emissora porta-voz de opinião publica soviética". Sp: Transmite la Radioemisora de la opinión publica Soviética. Transmite la Radioemisora 'Paz y Progreso' "
INT-SIG:

V. by QSL-card.

VATICAN STATE

VATICAN RADIO (Rel.) **L.T:** GMT+1h.
ADDR: Vatican Radio, Vatican City. **Cable:** Vatican Radio. **Te:** 6982. **Telex:** SCV 61031 — **L.P:** Dir. Gen: Rev. G. Martegani S. J. Dir. Prgr: Rev. J. Blajiot S. J. Dir: N. Sce: Rev. F. Farusi S. J. Dir. Tec: Rev. Prof. A. Stefanizzi S. J. Chief Tr. Eng: M. Lemme. Chief Studio Eng: P. V. Giudici. Secr: Dott. G. Resmini.
STATIONS: Medium Waves:
782kHz 383.6m 0.5kW — 1529kHz 196.2m 250kW.
FM: 93.3/96.3MHz 0.5kW.
Short Waves: 25/50/100kW.
G.C: 12.19E/42.03N and 12.27E/41.54N.

kHz	m	kHz	m	kHz	m	kHz	m
6190	48.47	9670	31.02	11850	25.32	17880	16.78
7155	41.92	11705	25.63	15120	19.84	17885	16.78
7250	41.38	11720	25.60	15210	19.72	21485	13.96
9615	31.20	11740	25.55	15255	19.66	21560	13.91
9630	31.15	11745	25.54	15285	19.63	21690	13.83
9645	31.10	11760	25.51	17800	16.85		

PROGRAM SCHEDULE (November '69-February '70): The wavelengths are subject to change with seasonal variation, or to avoid interference.
a) Tues, Thurs, Sat; b) Mon, Tues, Thurs, Sat; c) Sun, Mon, Wed, Fri; d) Mon, Wed, Fri; *) Sun; **) W; ***) H. Rosary; †) Sun, Wed; ††) Tues, Thurs; †††) Sun, Holidays.

TO EUROPE	Time	kHz/Beam
Albanian	20.30b	6190(86°)/7250(86°)/9645(86°)/1529(nd)
Armenian	16.45d	7250(86°)/9645(86°)/11740(67°)/1529(nd)
Bulgarian	17.45	6190(86°)/7250(86°)/1529(nd)
Czech	11.00	7250(26°)/9645(26°)/11740(13°)/1529(nd)
	19.00	6190(26°)/7250(26°)/9645(26°)/1529(nd)
English	15.00	9645(326°)/11740(319°)/15120(319°)/1529(nd)
	20.45	6190(326°)/7250(326°)/9645(326°)/1529(nd)
French	12.00	7250(326°)/9645(326°)/11740(319°)/1529(nd)
	14.30	9645(294°)/11740(319°)/15120(319°)/1529(nd)
	19.45	6190(294°)/7250(326°)/9645(326°)/1529(nd)
German	11.45	7250(326°)/9645(354°)/11740(355°)/1529(nd)
	14.45	9645(354°)/11740(355°)/15120(355°)/1529(nd)
	20.15	6190(26°)/7250(354°)/9645(354°)/1529(nd)
Hungarian	10.45	7250(26°)/9645(26°)/11740(13°)/1529(nd)
	21.00	6190(26°)/7250(54°)/9645(26°)/1529(nd)
Italian	13.30	6190(114°)/7250(326°)/9645(354°)/11740(107°)/1529(nd)
	18.30	6190(114°)/7250(326°)/9645(326°)/1529(nd)
	16.00Fri	6190(114°)/7250(326°)/9645(354°)/1529(nd)
	21.45	1529(nd)
Latin	10.30a	7250(26°)/9645(26°)/11740(13°)/1529(nd)
	16.30a	7250(26°)/9645(26°)/11740(49°)/1529(nd)
	21.45a	6190(26°)/7250(26°)/9645(26°)
	20.00***	6190(26°)/7250(54°)/9645(54°)/11740(175°)/1529(nd)
Latvian	07.00*	7250(26°)/9645(26°)
	18.05a	7155(26°)/9630(26°)/11720(13°)
Lithuanian	06.30*	7250(26°)/9645(26°)
	18.20	7155(26°)/9630(26°)/11720(13°)
Polish	11.30	7250(26°)/9645(26°)/11740(13°)/1529(nd)
	15.15	9645(26°)/11740(13°)/15120(13°)/1529(nd)
	19.30	6190(26°)/7250(26°)/9645(26°)/1529(nd)
Portuguese	15.30	9645(266°)/11740(269°)/15120(269°)/1529(nd)
	21.15	6190(266°)/7250(266°)/9645(266°)/1529(nd)
Rumanian	17.30	6190(54°)/7250(54°)/9645(54°)/1529(nd)
Russian	14.00	9645(54°)/11740(49°)/15120(49)/1529(nd)
	17.15	7250(54°)/9645(54°)/11740(49°)/1529(nd)
Serbo-Croat	18.15	6190(26°)/7250(54°)/9645(54°)/1529(nd)
Slovak	11.15	7250(26°)/9645(26°)/11740(13°)/1529(nd)
	19.15	6190(26°)/7250(26°)/9645(26°)/1529(nd)
Slovene	18.00	6190(26°)/7250(54°)/9645(54°)/1529(nd)
Spanish	14.15	9645(266°)/11740(269°)/15120(269°)/1529(nd)
	21.30	6190(266°)/7250(266°)/9645(266°)/1529(nd)
Swedish/Norwegian	20.30†	6190(354°)/7250(354°)/9645(354°)/1529(nd)
Ukrainian	17.00	7250(54°)/9645(54°)/11740(49°)/1529(nd)
White Ruth.	06.15*	7250(25°)/9645(26°)
	18.05c	7155(26°)/9630(26°)/11720(13°)
Concert	16.00††	6190(305°)/7250(354°)/9645(354°)/1529(nd)
Liturgy:		
Mass in Latin	07.30††††	7250(354°)/9645(54°)/11740(13°)/15120(49°)/1529(nd)
Mass in Italian	08.30†††	7250(326°)/9645(86°)/11740(107°)/15120(49°)/1529(nd)
	16.15*	7250(54°)/9645(54°)/11740(49°)/1529(nd)

TO AFRICA		kHz/Beam
Arabic	16.50	11705(107°)/15210(121°)
	19.05	11760(193°)/15255(193°)
English	10.00**	17840(139°)/21485(139°)
	10.50**	17840(170°)/21485(170°)
	11.50**	17840(198°)/21485(229°)
	16.20	11705(139°)/15210(139°)
	17.10	11705(175°)/15210(175°)
	19.35	11760(193°)/15255(193°)
Ethiopian	15.50	11705(139°)/15210(139°)
French	10.15**	17840(139°)/21485(139°)
	11.05**	17840(170°)/21485(170°)
	12.05**	17840(198°)/21485(229°)
	16.15	11705(139°)/15210(139°)
	17.25	11705(175°)/15210(175°)
	19.20	11760(193°)/15255(193°)
Portuguese	10.35**	17840(170°)/21485(170°)
	17.40	11705(175°)/15210(175°)

TO AMERICA		kHz/Beam
Portuguese	23.00	9615(234°)/11850(229°)/15285(229°)
Spanish	23.30	9615(234°)/11850(229°)/15285(229°)
	00.00	9615(266°)/11850(269°)/15285(269°)
	00.30	6145(294°)/9615(294°)/11725(301°)
English	00.50	6145(294°)/9615(294°)/11725(319°) (for USA)
French	01.10	6145(294°)/9615(294°)/11725(319°)

TO ASIA		
Arabic	16.50	11705(107°)/15210(121°)
Chinese	22.30a	9670(54°)/11705(49°)
English	15.05**	17885(89°)/21560(89°) (for India)
	22.30d	9645(54°)/11745(67°) (for Philippines)
Hindi, Tamil, Malayalam	15.15**	17885(89°)/21560(89°)
Japanese	21.45d	9670(54°)/11705(49°)

TO AUSTRALIA/NEW ZEALAND		
English	11.25	17845(89°)/21690(89°)
	22.02	9645(86°)/11745(89°)

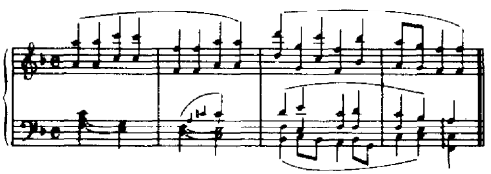
NEWS COMM: Italian 13.30, Spanish 14.15, French 14.30, German 14.45, English 15.00, Polish 15.15, Portuguese 15.30.

During March-April the schedule will be as above mentioned with the following alterations:

TO EUROPE	Time	kHz/Beam
Bulgarian	17.45	7250(86°)/9645(86°)/11740(89°)/1529(nd)
Latvian	07.00*	9645(26°)/11740(13°)
Lithuanian	06.30*	9645(26°)/11740(13°)
Rumanian	17.30	7250(54°)/9645(54°)/11740(89°)/1529(nd)
White Ruth. Liturgy:	06.15*	9645(26°)/11740(13°)
Mass in Latin	07.30†††7250/9645(54°)/11720(13°)/15120(49°)/1529(nd)	
Mass in Italian	08.30†††7250(326°)/9645(354°)/11740(319°)/15120(49°)/1529(nd)	
Oriental	09.30†††7250(326°)/9645(86°)/11740(107°)/15120(49°)/1529(nd)	
TO AMERICA		
Portuguese	23.00	11850(229°)/15285(229°)/17800(238°)
Spanish	23.30	11850(229°)/15285(229°)/17800(238°)
	00.00	9615(266°)/11850/15285(269°)
	00.30	9615(294°)/11725/15285(301°)
English	00.50	9615(294°)/15285(301°)/11725(319°) (for USA)
French	01.10	9615(294°)/15285(301°)/11725(319°)

nd)=omnidirectional antenna; all others are curtain antennas with reflector.

OPENING SIG: The Bells of St. Peter's.



ANN: "Laudetur Jesus Christus, Praised be Jesus Christ. This is Vatican Radio". "Loué soit Jésus-Christ. Ici Radio Vatican". "Alabado sea Jesucristo. Tranmite Radio Vaticana". "Slava Iisusu Xristu. Gavarit Radio Vatikan".

INT-SIG: Garillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment — **V.** by QSL-card or letter. Rec. acc. — **PUB:** Prgr. sched. free on request.

YUGOSLAVIA

L.T: GMT+1h — **Pr.L:** Serbo-Croat, Slovenian, Macedonian.

JUGOSLOVENSKA RADIOTELEVIZIJA

ADDR: 70 Borisa Kidrica, Belgrade. **Te:** 43-677. **Cable:** Jugoslovenska radiotelevizija, Beograd. **Telex:** 11469 yu jurate beograd.

L.P: Radiotélévision Yougoslave: Pres. Adm. Committee: V. Savić. Secr. Gen: Dr. I. Pustisek. Chief Foreign Rel: Mrs. O. Vojvodić.

Board of Radio Prgr: Pres: M. Mercun. Secr: Dr. I. Pustisek. **Commission Political Broadc:** Pres: J. Jankulovski. Secr: Dr. I. Pustisek. **Commission Cultural Broadc:** Pres: N. Kujundzic. Secr: Mrs. O. Vojvodić. **Commission Musical Prgr:** Pres: S. Baric. Secr: Mrs. L. Frajt. **Prgr. Committee TV:** Pres: D. Ilić. Secr: M. Milosavljević. **Tech. Commission:** Pres: Eng. R. Galić. Secr: Eng. P. Zdravković. **Jur. Commission:** Pres: Z. Urem. Secr: P. Tipsarević. **Commission Economic and Fin. Sce:** Pres: S. Fele. Secr: Mrs. Lj. Stocić. **Commission Foreign Rel:** Secr: Mrs. O. Vojvodić.

Radiotelevision Belgrade: Dir. Gen: Z. Vuković. Dir. Radio: V. Neoricić. Dir. Tec: Eng. R. Zizić. Foreign Rel: Hilendarska 2. **Te:** 23801. **Telex:** 11488. **Radiotelevision Zagreb:** Dir. Gen: I. Bojanić. Dir. Radio: Mrs. L. Spajić. Dir. Tec: V. Trs. **Radiotelevision Ljubljana:** Dir. Gen: M. Mercun. Dir. Radio prgr: J. Gaspercić. Dir. Tec: Eng. S. P. Mori. **Radiotelevision Skopje:** Dir Gen: M. Matevski. Dir. Radio: T. Simovski. Dir. Tec. for Transmitters and Links: Eng. B. Oncevski. **Radiotelevision Sarajevo:** Dir. Gen: V. Savić. Dir. Radio: B. Zlobicki. Dir. Tec: A. Stefanović. **Radiotelevision Titograd:** Dir. Gen: M. Perović, Dir. Radio: A. Selhanović. Dir. Tec: Eng. Lj. Kosović. **R. Novi Sad:** Dir: I. Rajčan. Dir. Tec: Eng. I. Djukić. **R. Pristina:** Dir: K. Deva. Dir. Tec: Bardulj Djinali.

MEDIUM WAVES: Main st's in bold types.

SERBIA	kHz	m	kW
Belgrade I	683	439.2	400
Nis	926	324.0	20
Belgrade II	1007	279.9	200
Subotica	1205	249.0	2
Elemir	1260	238.1	15W
Novi Sad I	1268	236.6	100
Vranje	*1295	231.7	10
Vrbas	1304	230.1	0.1
Bač	1322	226.9	0.05
Loznica	1403	213.8	1
Pristina	1412	212.4	100
Srbrobran	1448	207.2	0.1
Peč	1484	202.2	2
Svetozarevo	1484	202.2	2
Novi Sad II	1484	202.2	2
Cacak	1484	202.2	0.1
Valjevo	1484	202.2	0.1
Vojka	1486	201.9	15W
Kisac	1565	191.7	0.05

*) Relay R. Beograd I.

CROATIA			
Zagreb II	773	388.1	0.05
B. Manastir	773	388.1	0.7
Varazin	774	387.6	0.05
Karlovac II	782	383.6	0.05
Vinkovci	809	370.8	0.05
Sibenik	809	370.8	0.05
Dubrava	827	362.8	0.01
Gola	854	351.3	0.05
Slav. Broad	881	340.5	0.05
Krizevci	881	340.5	0.05
Knin	881	340.5	0.05
Daruvar	881	340.5	0.05
Virje and Virovitica	926	324.0	1
Cakovec	926	324.0	0.05
Gospic	926	324.0	0.05
Kapela	1061	282.8	0.05
V. Toplice	1061	282.8	0.1
Zagreb I	1133	264.7	135
Rijeka I	1133	264.7	20
Split I	1133	264.7	50
Zadar	1133	264.7	2
Osijek	1133	264.7	2
Dubrovnik	1133	264.7	2
D. Miholjac	1169	256.6	0.05
Koprivnica	1178	254.7	0.05
Vukovar	1178	254.7	1
Cazma	1214	247.1	0.05
Bjelovar	1214	247.1	0.05
Vrbovec	1277	234.9	0.05
Zdala	1277	234.9	0.05
Nasice	1313	228.5	0.05
Djurdjevac	1313	228.5	0.1
Krapina Zab	1313	228.5	0.05
N. Gradiska	1313	228.5	0.05
Otok	1313	228.5	0.05
Pitomaca	1358	220.9	0.01
Molve	1363	220.1	0.05
Jabuceta	1363	220.1	10W
Hlebine	1394	215.2	0.05
Gospic	1412	212.4	20
Osijek	1412	212.4	2
Novigrad Podr	1421	211.2	25W
Porec	1484	202.2	0.05
Pula	1484	202.2	2
Vrbovsko	1490	201.3	0.2
Dubrovnik	1493	200.9	2
Zagreb II	1493	200.9	7
Buje	1493	200.9	2
Ludbreg	1493	200.9	0.05
Otocac	1493	200.9	0.05
Dakovo	1493	200.9	0.05
Petrinja	1520	197.4	0.05
Rasinja	1520	197.4	0.01
Karlovac	1594	188.2	0.05
Rovinj	1594	188.2	0.05
Ogulin	1594	188.2	0.05
Zabok	1594	188.2	0.05
P. Lubotica	1594	188.2	0.04

SLOVENIA			
Ljubljana I	917	327.1	135
Koper II	1079	278.0	6
Koper I	1169	256.6	20
Radlje	1241	241.7	0.05
Maribor	1412	212.4	20
Ljubljana II	1484	202.2	2
Celje	1484	202.2	2
Crnomelj	1484	202.2	0.05
Trzic	1484	202.2	0.2
S. Jelsah	1484	202.2	15W
Bovec	1484	202.2	0.05
Tolmin	1484	202.2	0.05
Murska Sobota	1493	200.9	2
Slovenj Gradec	1511	198.5	0.05
Ptuj	1511	198.5	0.05
Brezice	1562	192.1	0.05
Kobarid	1594	188.2	0.05
Jesenice	1594	188.2	0.2
Trbovlje	1594	188.2	0.05

BOSNIA/HERZEGOVINA			
Sarajevo	611	491	100
Brcko	1331	225.4	0.05
Gradacac	1430	209.8	0.05
Tuzla	1484	202.2	2
Mostar	1484	202.2	2
Jajce	1484	202.2	0.2
Bihac and Modrica	1484	202.2	0.05
Banja Luka	1484	202.2	2
B. Novi	1484	202.2	0.05
Odzak	1484	202.2	0.05
Travnik	1484	202.2	0.5
B. Krupa	1538	195.1	0.02
Doboj	1594	188.2	0.01

MACEDONIA			
Skopje I	809	371	135
Prilep I	1464	204.9	0.05
Macedonski Brod	1466	204.6	0.05
Delcevo	1484	202.2	0.05
Bitola	1484	202.2	2
Debar	1484	202.2	0.05
Gevgelija	1484	202.2	0.05
Gostivar	1484	202.2	2
Kicevo	1484	202.2	0.05
Kocani	1484	202.2	0.15
Ohrid	1484	202.2	2
Prilep II	1484	202.2	0.05
Resen	1484	202.2	0.05
Strumica	1484	202.2	0.05
Skopje II	1484	202.2	0.4
Struga	1484	202.2	0.05
Berovo and Negotino	1484	202.2	0.05
Titov Veles	1484	202.2	0.5
Radovis	1484	202.2	0.05
Probistip	1484	202.2	0.05
Vinica	1484	202.2	0.05
Kavadarci	1495	200.7	0.02
Kumanovo	1500	200.0	0.2
Stip	1552	193.3	0.2

MONENEGRO			
Titograd	881	341	100

FM:

SERBIA	MHz	kW
Novi Sad II	87.7	4
Belgrade I	88.9	1
Ovcar I	88.1	4
Subotica II	88.9	1
Iastrebac II	89.3	50
Orni Vrh I	89.7	4
Ovcar II	90.1	4
Novi Sad I	90.5	50
Kapaonik II	90.9	1
Goles II	92.5	1

SERBIA	MHz	kW
Subotica I	92.5	4
Tupizinica I	92.5	4
Valjevo	92.5	0.03
Cacak	92.8	0.03
Pristina	93.7	0.25
Crvni Cot I	94.5	40
Avala I	95.3	40
Kopaonik I	93.7	4
Tupizinica II	96.1	4
Crvni Cot II	96.5	40
Istrebac I	96.9	50
Avala II	97.7	4
Nis	98.1	0.5
Belgrade II	92.5	1
Crni Vrh II	99.3	4
Goles I	99.7	4
CROATIA		
Pula I	88.1	5
Zagreb II	88.1	0.06
Stipanov Gric I	89.7	2.5
Labistica I	91.3	5
Sljeme I	92.1	50
Celévac I	95.1	50
Labistica II	96.1	5
Ucka II	96.9	50
Psuni I	97.3	50
Celévac II	98.1	50
B. Manastir	93.3	15
B. Manastir	98.1	15
Sljeme II	98.5	50
Ucka I	99.3	50
Zagreb I	99.3	0.09
Psunj II	99.7	5
SLOVENIA		
Pohorje I	88.5	3
Kopertown	89.3	0.375

SLOVENIA	MHz	kW
Plesivec I	92.5	10
Kravavec II	91.7	2.5
Plesivec II	90.1	0.375
Nanos I	92.2	1.5
Ljubljana II	93.5	0.375
Kum I	94.1	10
Nanos II	95.3	0.375
Stol	96.4	2.5
Ljubljana I	96.5	0.375
Pohorje II	96.9	0.375
Celje	97.0	0.06
Koper		
Beli Kriz	97.7	1
Mirna Gora I	97.7	2.5
Kravavec I	98.9	100
Kum II	99.9	4.5
Idrija I	90.9	0.02
Jenesice I	87.7	0.02
Vogel I	95.7	0.02
BOSNIA/HERZEBOVINA		
Hum	95.7	3
Sarajevo	96.5	1
Vlasic	89.3	100
Bielasnica	98.1	1
Velez	97.3	3
MACEDONIA		
Popova Sapka	90.5	0.1
Ohrid	92.1	0.12
Crni Vrv	94.1	0.8
Pelister	95.7	0.8
Skopje	98.9	0.6
MONTENEGRO		
Bjelasica	92.1	1
Lovcen	94.9	1
Titograd	96.1	1.2
Titograd	99.9	1.2

HOME SERVICE:

R Beograd I: W 04.05-00.05 (Sat/Sun/Mon 24h) — **N:** W 04.03, 04.30, 05.00, 05.30, 06.00, 06.40, 07.05, 07.30, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 21.00, 22.00, 23.00, 24.00. Sun 05.03, 05.30, 06.00, 06.30, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 22.00, 23.00, 24.00.

R. Beograd II: W 12.00-21.00 (Sat/Sun 07.00-21.00) — **N:** W 12.30, 13.30, 14.30, 16.00, 17.30, 18.30, 19.00, 20.50. Sun 07.30, 08.30, 10.30, 12.30, 13.30, 14.30, 16.30, 18.30, 19.00, 20.50.

R. Beograd III: 21.00-24.00.

R. Zagreb I: 04.30-24.00 (Sat 24h; Sun 04.30-00.10) — **N:** 04.30, 05.00, 06.15, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.30, 22.00, 23.00, 24.00.

R. Zagreb II: 05.00-20.00 — **N:** 04.30, 06.30, 07.30, 08.30, 09.30, 10.30, 11.30, 12.30, 13.30, 15.30, 16.30, 17.30, 18.30 — **R. Zagreb III:** 20.00-23.00.

How to Listen to the World

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—USA

"Please send me the next edition".
—GERMANY

Send order to WRTH Co. Ltd.

R. Ljubljana I: 04.30-24.00 — **N:** W 04.30, 05.00, 06.00, 07.00, 08.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 22.00, 23.00, 24.00. Sun 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 19.30, 22.00, 23.00, 24.00.

R. Ljubljana II: W 14.00-24.00 (Sun 09.30-24.00) — **N:** W 14.00, 15.45, 20.00, 21.00, 24.00. Sun 09.30, 11.30, 13.30, 14.30, 17.30, 20.00, 21.00, 24.00.

R. Sarajevo: W 05.00-00.05 (Sat/Sun/Mon 05.00-01.00). **N:** 05.00, 06.00, 06.30, 07.30, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.30, 21.00, 22.00, 23.00, 24.00.

R. Skopje I: D 05.00-24.00 — **N:** 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 22.00, 23.00, 24.00.

R. Skopje II: 12.00-17.20 — **N:** 12.30, 13.30, 14.30, 16.30.

R. Titograd: W 05.00-08.00, 12.00-23.00 (Sun 05.00-23.00). **N:** W 05.00, 06.30, 08.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.30, 21.00, 22.00. Sun 05.00, 06.00, 07.30, 08.00, 10.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 22.00.

R. Novi Sad: 05.00-00.05. **N:** W 05.15, 05.30, 05.45, 06.00, 07.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 21.00, 21.30, 22.00, 22.30, 24.00. Sun 05.15, 05.30, 05.45, 06.00, 07.00, 09.28, 12.00, 15.00, 17.00, 18.00, 19.00, 21.00, 21.30, 22.00, 22.30, 24.00.

R. Novi Sad II: W 13.30-17.30, Sun 08.00-13.00. **N:** W 15.30, 14.30. Sun 10.30, 12.00, 13.00.

R. Pristina: W 05.00-23.05 (Sun 05.30-23.05). **N:** W 05.02, 06.00, 06.30, 07.00, 08.00, 09.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 18.30, 19.30, 21.00, 22.00, 23.00. Sun 06.00, 07.00, 08.00, 10.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.30, 19.30, 22.00, 23.00.

FOREIGN SERVICE

SHORT WAVES: Beograd (G.C: 20.09E/44.3N)

kHz	m	kW	kHz	m	kW	kHz	m	kW
6100	49.18	100	9505	31.56	100	11735	25.56	100
6150	48.78	100	9620	31.18	100	15240	19.69	100
7200	41.67	100						

Albanian	kHz
14.00-14.30	6100,7200,9620
20.30-21.00(W)	1412
21.30-22.00	881
Arabic	
15.00-15.30	6100,9620, 11735
17.30-18.00	6100,7200,9620
Bulgarian	
13.00-14.00(Sun)	926
14.30-15.00(W)	926
18.00-18.30	6100,7200,9620
English	
15.30-16.00	9620,11735, 15240
18.30-19.00	6100,7200,9620
20.00-20.30	6100,7200,9620
22.00-22.15	1268,6100, 7200,9620

French	kHz
16.00-16.30	6100,7200,9620
19.30-20.00	6100,7200,9620
22.15-22.30	1268,6100, 7200,9630
German	
16.30-17.00	6100,7200,9620
20.30-21.00	6100,7200,9620
Russian	
14.30-15.00	6100,7200,9620
17.00-17.30	6100,7200,9620
19.00-19.30	6100,7200,9620
Spanish	
21.30-22.00	6100,7200,9620
00.00-00.30	7200,9620, 11735
01.00-01.30	7200,9620, 11735

N: At the beginning of every tr.

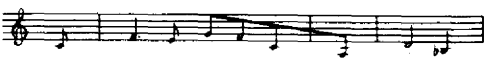
RELAY OF HOME SCE. for countrymen living abroad:

Radio Beograd I: 14.00-23.00 on 6150/9505kHz, 21.00-21.30 on 6100, 7200, 9620kHz.

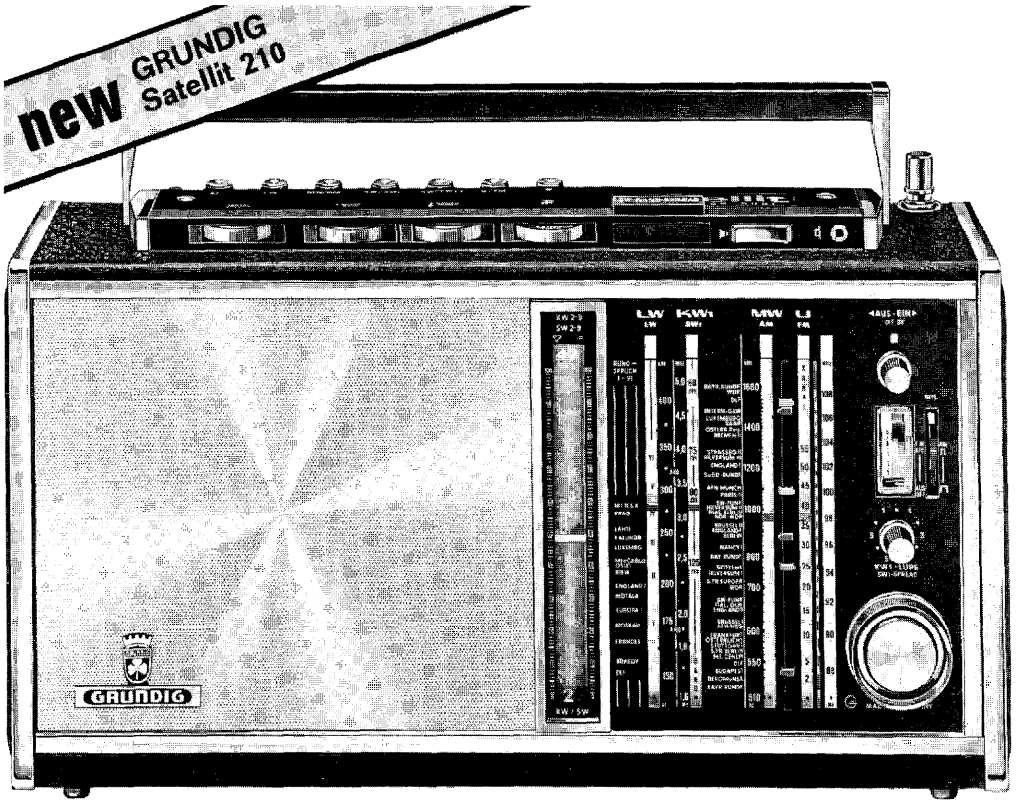
Radio Skopje (in Macedonian): Sun 13.30-14.00 on 6100, 7200, 9620kHz; D 18.00-18.30 on 809kHz.

ANN: Home Service: "Here is Radiotelevision Beograd, ...Zagreb, ...Ljubljana, etc." — "Ovde Radiotelevizija Beograd, ...Zagreb, ...Ljubljana, etc." — Foreign Service: "This is Yugoslavia, R. Belgrade calling" — "Ici la Yugoslavie, Belgrade vous parle". "Hier spricht R. Beograd".

INT-SIG: Home and Foreign Service: The beginning of the "Internationale" (Radio Belgrade).



V. by QSL-card. Re. to: Chief Editor of External Broadcasting, 2 Hilendarska, Beograd. Recordings accepted — **ALF:** Din 72,-



THE SATELLIT KEEPS YOU IN TOUCH WHEREVER YOU ARE!

Equipped with 20 wave ranges, the SATELLIT is the ideal communication receiver for radio amateurs, globetrotters, expedition leaders and yachting fans.

Its years-ahead technology and extraordinary ease of operation have made the SATELLIT one of world's most advanced radios.

In addition to FM, AM (MW) and a specially spread Long Wave band for marine wireless service, the new SATELLIT can offer 17 Shortwave ranges. SW 1 is equipped with electronic SW Fine Tuning and covers continuously the 60—187 m range. This means a tuning convenience that hitherto the "Satellit 208" only could provide on the SW range. Whether it's marine band signals, shipping broadcasts, meteorological or amateur broadcast — the SATELLIT provides matchless reception.

The SATELLIT's most remarkable feature is its Shortwave Tuner (a rotating drum selector). It gives continuous coverage of all wave lengths from 10—60 m, split into eight pre-spread sections. A shortwave band within each of these sections can be spread additionally over the entire scale length, simply by pressing the BANDSPREAD key.

SW 2: 60 ... 42 m + 49 m band
SW 3: 50 ... 36 m + 41 m band
SW 4: 37 ... 27 m + 31 m band
SW 5: 30 ... 22 m + 25 m band
SW 6: 23 ... 17 m + 19 m band
SW 7: 20 ... 14.5 m + 16 m band
SW 8: 16.5 ... 12 m + 13 m band
SW 9: 14 ... 10 m + 11 m band

Frequencies up to the AM band are covered by the SW band 1 from 60—187 m; tuning is by the main tuning scale.

The SATELLIT is available in two versions:

1. Black leatherette-covered wood cabinet, metallic front
2. Wood cabinet, imitated walnut finish

Dimensions: 17¼ x 10¼ x 5¼" approx.

Satellit Amateur 210
complete with SSB unit and built-in mains power pack. A special receiver with 12 wave ranges for radio amateurs. Spread amateur wavebands.
Tuning ranges: FM — 87 ... 108 MHz, SW 1 = 1.6 ... 5.0 MHz (187—60 m), AM (MW) = 510 ... 1620 KHz, LW = 145 ... 420 KHz. Even higher selectivity than the SATELLIT 210 due to ceramic filters in the AM/IF stages. Other features identical to Satellit 210.

GRUNDIG Werke GmbH, 851 Fürth/Germany

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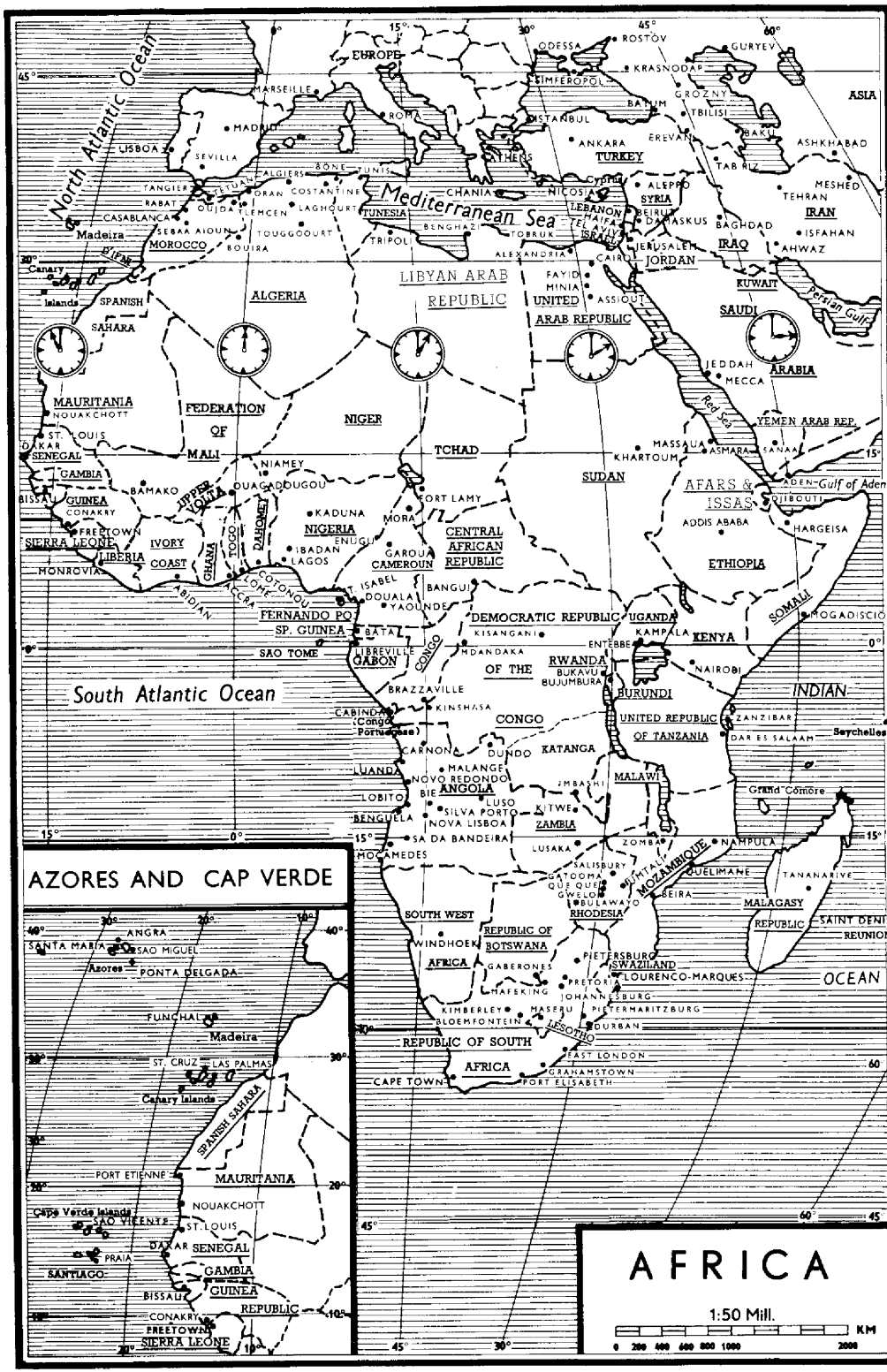
AFRICA
1:50 Mill.
KM
0 200 400 600 800 1000 2000
North Atlantic Ocean
South Atlantic Ocean
Mediterranean Sea
INDIAN OCEAN
EUROPE
ASIA
TURKEY
SYRIA
IRAN
IRAQ
JORDAN
KUWAIT
SAUDI ARABIA
Persian Gulf
Red Sea
Gulf of Aden
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SOUTH WEST AFRICA
REPUBLIC OF BOTSWANA
REPUBLIC OF SOUTH AFRICA
LESOTHO
SWAZILAND
MOZAMBIQUE
RHODESIA
MALAGASY REPUBLIC
SAINT DENIS
REUNION
Seychelles
Grand Comore
SUDAN
CHAD
NIGER
ALGERIA
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UNITED ARAB REPUBLIC
MAURITANIA
FEDERATION OF MALI
SENEGAL
GAMBIA
GUINEA
SIERRA LEONE
LIBERIA
IVORY COAST
GHANA
TOGO
DAHOMEY
UPPER VOLTA
NIGERIA
CAMEROUN
CENTRAL AFRICAN REPUBLIC
FERNANDO PO
SP. GUINEA
SAO TOME
GABON
CONGO
CABINDA (Congo Portuguese)
LUANDA
BENGUELA
MOCAMEDES
SOUTH WEST AFRICA
CAPE TOWN
SAHARA
SPANISH SAHARA
Madeira
Canary Islands
Azores
SANTA MARIA
SAO MIGUEL
ANGRA
PONTA DELGADA
FUNCHAL
ST. CRUZ
LAS PALMAS
PORT ETIENNE
NOUAKCHOTT
ST. LOUIS
DAKAR
SAO VICENTE
PRAIA
SANTIAGO
BISSAU
CONAKRY
FREETOWN
SIERRA LEONE
REPUBLIC
AZORES AND CAP VERDE

AFRICA

AFARS & ISSAS (Terr. of)

L.T: GMT + 3 h — Pr.L: French, Somali, Afar, Arabic.

OFFICE DE RADIODIFF. TELEVISION FRANCAISE (ORTF)

ADDR: B.P. 97, Djibouti. Te: 894 — L.P. St. Dir: M. Tondra. Dir. Tec: M. Satti. Dir. of Inf: M. Briere.
STATIONS (G.C: 43.00E/11.30N): all tr's 4kW
1169kHz 256.6m — 1538kHz 195.0m — 4780kHz 62.76m.
HOME SCE: French: On 1169kHz: W 03.00-06.00, 09.00-10.45, 15.30-20.00; Sun 05.00-10.30, 15.30-20.00. N. 03.15, 10,15, 17.00.
Issa/Afar/Arabic: On 1538/4780kHz: 03.00-06.00, 09.00-20.00 (Sun 05.00-20.00). N. in Issa: 04.10, 10.00, 17.45. N. in Afar: 03.30, 09.45, 12.00, 18.00. N. in Arabic: 04.45, 11.30, 17.30.
ANN: F: "Ici Djibouti Office de Radiodiff. Télévision Francaise". Afar: "Ah Djibouti Radio". Arabic: "Houna Djibouti dar el Iza'a el Francia lil Radiowal Television". Somali: "Al kani wa Radio Djibouti" — **INT-SIG:** Extract from a Somali melody — **V.** by letter and QSL-card. Rp. Rec. acc.

ALGERIA

L.T: GMT — Pr.L: French, Arabic, Kabyl.

RADIODIFFUSION-TELEVISION ALGERIENNE (Gov.)
ADDR: 21, Blv. des Martyrs, Algiers. Te: 602300. Telex: 91014 — L.P: Dir. Gen: M. Rezzoug. Dir. of Tec. Sce's: A. Laghouati. Dir. Netw. I+II: A. Benedougha. Dir. Netw. III+IV: M. Boureghda. Dir. of Foreign Rel: M. Bengava.

ARABIC NETWORK: 06.00-09.00, 11.00-24.00.

	kHz	m	kW		kHz	m	kW
Constantine I	529	561.1	300	Algiers	980	306.1	20
Oran I	548	547.4	300	Algiers	11810	25.40	50

N: 06.30, 07.30, 09.00, 10.00, 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 22.00, 23.00, 23.45.

FRENCH NETWORK: Mon-Wed & Fri 06.00-08.00, 12.00-14.30, 17.00-24.00; Thurs/Sat 06.00-08.00, 12.00-24.00; Sun 06.00-24.00.

	kHz	m	kW		kHz	m	kW
Algiers II	890	331.1	200	Algiers	6080[1]	49.34	50
Constan-tine II	1304	230.1	20	Algiers	9510[2]	31.55	50
Oran II	1304	230.1	20	Algiers	11835[2]	25.35	100
				Algiers	15200[3]	19.74	50

1) Night only; 2) throughout; 3) daytime only.
N: 07.00, 07.55, 12.00, 13.00, 17.00, 18.00, 19.00, 20.00, 22.00, 23.45.

KABYL NETWORK: W 06.00-08.00, 12.00-22.30; Sun 06.00-22.30.

	kHz	m	kW		kHz	m	kW
Algiers	692	433.5	4	Algiers	9685	30.98	50
Algiers III	1421	211.1	40				

N: 07.00, 07.30, 12.00, 13.00, 17.00, 19.00, 20.00, 22.00.

SUPPLEMENTARY NETWORK (relays French & Arabic netw, local prgr's): 11.00-13.15, 17.00-23.00.

	kHz	m	kW
Touggourt	557	538.6	11
Bouira	692	431.5	1
Tlemcen	746	402.1	1
Setif	854	351.3	0.05
Batna	1016	295.3	1
Souk Ahras	1079	278.0	1
Laghouat	1570	191.1	4
Bougie	1594	188.2	0.6

RELAYS ON SHORTWAVE (G.C: 03.00E/37.00N):
Arabic (to Morocco/Mid East): **On 11810kHz:** Mon, Thurs 06.00-09.00, 11.00-24.00; other days 06.00-24.00.
French (to Europe, directed No/So): **On 6080kHz:** 06.00-08.00 (Sun 09.00), 17.00-24.00; **On 15200kHz:** 12.00-14.30 (Sat/Sun 17.00); **On 9510kHz:** 06.00-08.00, 12.00-14.30, 17.00-24.00 (Sat 06.00-08.00, 12.00-24.00; Sun 06.00-24.00).
On 11835kHz: Sat 06.00-08.00, 12.00-24.00; Sun 06.00-24.00.
Kabyl (directed East/West) on 9685kHz: 06.30-08.30, 12.00-22.30 (Sun 06.30-22.30).

ANN: F: "Ici Alger Radiodiff. Télévision de la République Algerienne Democratique et populaire". Arabic: "Houna el Djazair Idhaatou el Djamhouriati el Djazariyati el Demau krati hati oua ch'chaa bi'yati" — V. by QSL-card. Re. in French — **ALF:** DA 30, — **EC:** a/c 50 (yes).

ANGOLA (Port. West Africa)

L.T: GMT + 1 h — Pr.L: Portuguese — EC: a/c 50 (yes).

DIRECCAO DOS SERVICOS DOS CORREIOS, TELEGRAFOS E TELEFONOS, Launda
L.P: Dir: A. Cardoso de Sousa.
STATIONS: Call CR6 — All st's comm. exc. 4) (Gov), 3) R1g) Short Waves: x) inactive

	Call	kHz	m	kW	Name and h. of tr.
1)	RM	3215	93.30	1	R. Clube de Mocamedes: 06.00-09.00, 11.00-13.30, 16.30-23.00.
2)	RP	3272	91.69	2	R. Clube do Cuanza Sul: 11.00-13.00, 16.00-22.00.
3)	RB	3355	89.42	1	R. Ecclesia: 24 h
4)	RZ	3375	89.89	10	R. Angola: 17.00-24.00 (Sat 02.00).
5)	RF	3395	88.37	0.25	R. Clube de Benguela, Cubal: 05.30-08.00, 11.00-13.00, 17.00-21.30
6)	RD	3704	80.99	1	R. Clube do Huambo: 16.00-23.00 (Sun 16.00-22.00)
7)	SG	3970	75.75	1	R. Clube da Huila: W 06.30-13.30, 15.30-23.00; Sun 07.00-23.00
8)	RS	4707	63.73	1	R. Clube do Lobito: 06.00-23.00.
9)	RG	4770	62.89	0.5	R. Diamang: W 16.30-19.00, Sun 11.00-12.30.
10)	R6	4795	62.57	10	R. Comercial de Angola: 07.00-14.00, 17.00-01.00 (Sun 09.00-01.00)
4)	RZ	4820	62.24	10	R. Angola: 05.00-08.00, 17.00-23.00
2)	RY	4840	61.98	0.25	R. Cl. do Cuanza Sul: 11.00-13.00, 16.00-22.00
11)	RU	4850	61.86	1	R. Cl. do Uige: W 06.00-08.00, 11.00-14.00, 17.00-23.00; Sun 08.00-20.00
12)	RN	4867	61.64	1	R. Cl. de Angola: W 05.30-14.00, 16.30-21.10 (Sat 05.30-23.30); Sun 07.00-22.00
13)	RO	4896	61.27	1	R. Cl. do Bie: W 06.00-09.00, 11.00-13.00, 16.30-23.00; Sun 08.00-20.00
14)	RE	4935	60.80	1	R. Cl. do Malanje: 06.00-09.00, 11.00-14.00, 16.00-22.00
3)	RB	4985	60.18	0.25	R. Ecclesia: 24 h
15)	RV	5005	50.94	1	R. Clube do Moxico: W 05.30-09.00, 11.00-13.00, 16.00-23.00; Sun 08.00-20.00
1)	RM	5015	59.82	0.75	R. Cl. de Moçamedes: W 06.00-09.00, 11.00-13.30, 16.30-23.00; Sun 08.00-20.00
7)	RH	5025	59.70	1	R. Cl. da Huila: W 06.30-13.30, 15.30-23.00; Sun 07.00-23.00
16)	RW	5035	59.58	1	R. Cl. de Cabinda: W 06.00-07.00, 11.30-13.00, 17.00-22.00; Sun 08.00-14.00, 16.00-20.00
5)	RF	5042	59.50	1	R. Cl. de Benguela: W 05.45-13.30, 14.30-23.00; Sun 07.00-21.00
6)	RD	5060	59.29	1	R. Cl. do Huambo: 05.00-23.00 (Sun 07.00-22.00)
17)	RZ	5960	50.34	100	A Voz de Angola: 05.00-23.00
5)	RF	6150	48.78	1	R. Cl. de Benguela: W 05.45-13.30, 14.30-23.00; Sun 07.00-21.00
4)	RZ	6175	48.58	50	R. Angola: 19.00-23.00 (Sat 24.00)
12)	RA	7140	42.02	0.5	R. Cl. de Angola: as 4867kHz
6)	RD	7160	41.90	1	R. Clube do Huambo: 05.00 (Sun 07.00)-16.00
13)	RO	7203	41.65	1	R. Cl. do Bie: as 4896kHz (rep. on 3295kHz)
3)	RB	7215	41.58	0.25	R. Ecclesia: 24 h
4)	RZ	7245	41.41	100	R. Angola: 05.00-24.00 (Sat 02.00); Sun 06.30-24.00
10)	R6	7290	41.15	10	R. Comercial de Angola: only used in Summer (as 4795kHz)
4)	RZ	9535	31.46	100	R. Angola: 05.00-1700 (Sun 08.30-17.30)
9)	RI	9615	31.20	1	R. Diamang: as 4770kHz
12)	RL	9630	31.15	1	R. Cl. de Angola: as 4867kHz.
17)	RZ	9660	31.06	10	A Voz de Angola: 05.00-17.00
4)	RZ	11875	25.26	10	R. Angola: 08.00-17.00

Medium Waves: ° = Short Wave

	Call	kHz	m	kW		Call	kHz	m	kW
4)	—	°701a	428.0	5	1)	RM	°1331	225.4	1
3)	RB	°1010	287.0	1	16)	RW	°1349	222.4	1
4)	RZ	°1088	275.0	5/100	17)	RZ	°1367	219.5	100/10
6)	RD	°1160	259.0	1	13)	—	°1385	217.0	1
14)	RE	°1169	257.0	1	8)	RS	°1403	213.8	1
15)	—	°1214	247.0	1	2)	RP	1484	202.2	1
12)	—	°1232	243.5	1	5)	RF	°1502	199.7	1
4)	—	°1295c	231.7	1	10)	—	°1529	196.2	1
11)	RU	°1295	231.7	1	18)	—	1586	189.1	0.25
7)	RA	°1313	228.0	1	6)	RD	°1594	188.2	1

a) Emissor Reg. de S. Salvador;
c) Emissor Reg. de Menongue.
FM: 13) 88.72MHz 0.1kW — 12) 89.58MHz 0.5kW — 11) 89.84MHz 0.1kW — 10) 90.5MHz 0.01kW — 4) 93.5MHz 1kW — 8) 94.14MHz 0.1kW — 3) 97.49MHz 0.2kW — 5) 97.76MHz 0.1kW — 17) 105.9MHz 1 kW.

Short Waves:
1) C.P. 174, Moçamedes. Te: 200. Cable: Radioclube. L.P: Pres: E. P. Silva. St. Mgr: J. M. Frota. Ann: "R. Clube de Moçâmedes, em Angola, Provincia Portuguesa de Africa". V. by QSL-card. Reported using 1331 & 5015kHz only.
2) C.P.10, Novo Redondo. L.P: Pres: O. S. de Freitas Viegas. Dir. Tec: R. P. de Almeida. Ann: "Aqui Portugal, transmite de Novo Redondo, Angola, R. Clube do Cuanza Sul". Int-Sig: Guitar. V. by QSL-card.
3) C.P. 156, Luanda. Te: 22302. L.P: Dir. Gen: P. J. M. Pereira. Dir. Tec: A. Hitters. Dir. Prgr: A. B. Marques. D.Prgr: N: 05.20, 11.45, 19.00, 23.00, 00.10. Ann: "Aqui Portugal, R. Ecclesia, Emissora Católica de Angola, a trabalhar ininterruptamente dia e noite". Int-Sig: Music from "A Treze de Maio". V. by QSL-card.
4) Emissora Oficial, C.P. 1329, Luanda. Te: 80499. L.P: Dir. Gen: F. Monteiro Flor. Dir. Tec: J. C. Proença.
D.Prgr: Prgr. A (on 701kHz): 05.00 (Sun 06.30)-24.00 (Sat 02.00); Prgr. B (on 1088kHz): 17.00-23.00 (Sat 24.00); Sun 06.30-17.00 (with 5kW). N: 06.00 (W), 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.02 (W), 17.15, (Sun), 19.00, 21.00, 22.00, 23.00, 23.45 (W), 01.45 (Sat). English: 10.00-11.00 (Sun) on 9335/11875kHz, 15.00-16.00 (W) on 9535/11875kHz. French: 11.00-12.00 (Sun) on 9535/11875kHz, 16.00-17.00 (W) on 4820kHz — Int-Sig: Kizanzi followed by Nat. Anthem (A Portuguesa) and "Angola e Nossa". For English & French prgr's: Opening bars of Nat. Anthem.
5) C.P. 19, Benguela. Te: 2117. Cable: Radio Clube. L.P: Pres: Dr. U. Fresta. Dir. Tec: A. Pereira de Sousa. D.Prgr: N: 06.30 (W) 09.00 (Sun), 11.30 (W), 12.30 (Sun), 18.30, 22.45 (W). Wrp: after N 11.30, 1830. Mw: W 05.45-13.30, 15.30-23.00, Sun 07.00-21.00 on 1529kHz. Emissor Reg. do Cubal (3250kHz). Ann: "R. Clube de Benguela, Angola, Provincia Portuguesa de Africa". Int-Sig: Solo on Kissange, a native instrument. V. by QSL-card or letter. Recordings accepted.
6) C.P. 125, Nova Lisboa. Te: 2241. Cable: Radihuambo. L.P: Pres: E. P. Roque, Vice Pres: R. F. da Silva. Secr: A. F. Quaresma. Dir. Prgr: A. Caratão. D.Prgr: Umbundo: 16.00-19.00. On 1160/1594kHz: 05.30-13.30, 16.00-23.00 (Sun 07.00-21.00). Ann: P: "Aqui Angola, Portugal, de Nova Lisboa transmite o R. Clube de Huambo, Uma Voz portuguesa em Africa" (This is Angola, Portugal, R. Clube of Huambo, Nova Lisboa, a Portuguese voice in Africa). Umbundo: "Kulo ko Angola Portugal. Ylo ó R. Clube yo Huambo, ko Nova Lisboa, Ocipama cetu ca Cruzeiro do Sul". Int-Sig: Bird-chirping. V. by QSL-card. (Reported using 3345 kHz.)
7) C.P. 111, Sá da Bandeira. Te: 92. Cable: Radioclube. L.P: Pres: Dr. U. Fresta. Dir. Tec: J. H. Guimares. D.Prgr: N. 07.30, 12.00, 19.30. Ann: "R. Clube de Huila am Sá da Bandeira Angola, Provincia de Portugal em Africa". Int-Sig: First movements from "Bailinho de Madeira". V. by QSL-card. Rp.
8) C.P. 56, Lobito. Te: 2262. L.P: Pres: Dr. C. Krus. Dir. Tec: A. Fernandes. Dir. Prgr: J. E. Monteiro. D.Prgr: N: 06.05, 10.15, 12.00, 15.00, 19.00, 21.30, 22.15, 22.40. Ann: "Angola, Portugal transmite o R. Clube do Lobito". Int-Sig: Gong. V. by QSL-card or letter. Re. in E.F.P.Sp (reported using 4910kHz).
9) C.P. 1247, Dundo, Lunda. Cable: Diamang, Portugalia. L.P: Dir. Gen: J. A. Bexiga. Dir. Tec: L. S. Matos. R. Diamang is a private st. which aims only to entertain the Diamang employees who work in the mining fields of Lunda. The Prgr's are varied, consist only of classic, light and native music. Ann: "Aqui Dundo, Angola, Provincia Portuguesa de Africa R. Diamang, Estação Emissora da Compànhia de Diamantes de Angola". Int-Sig: At opening "Marimba" solo (native instruments of percussion similar to the xylophone). V. by QSL-card. Re. in P. E or F.
10) C.P. 269, Sá da Bandeira. Te: 115. Cable: Radial. L.P: Dir. Adm: M. F. de Almeida. Dir. Tec: F. Marcelino. D.Prgr: N: 06.00 (W), 11.00, 18.30 — MW/FM: W 06.00-13.00, 16.00-24.00: Sun 08.00-24.00 on 1529kHz/90.5MHz (English, Portuguese, Afrikaans & French at 23.00-24.00). Ann: "R. Comercial de Angola a Voz de Amisade, com os seus estudios em Sá da Bandeira". Int-Sig: Trumpets, Drums. V. by letter. Obs: R. Comercial de Angola is partly relayed by "A Voz de Luanda".
11) C.P. 140, Carmona. Te: 26. Cable: Radioclube. L.P: Pres: J. J. Nogueira. Vice Pres: J. de Sousa Mendez da Rocha Diniz. Secr: S. da Silva Calçada. D.Prgr: N: 06.30, 11.45, 13.00, 18.00, 18.45, 22.00. Ann: "R. Clube do Uige em Carmona, Provincia Portuguesa d'Africa". Int-Sig: Passarinhos followed by a march "Angola é Nossa".
12) C.P. 229, Luanda. Te: 23448. Cable: Radangola. L.P: Pres: Com. Albuquerque e Castro. Dir. of Prod: N. Neves e Sousa. Tec. Mgr: O. Carreira. Prgr. Mgr: A. dos Santos e Sousa. D.Prgr: Mw: 05.30-23.30 (Sun 07.00-22.00). FM: 19.30-21.30 (Sun 07.00-22.00). N: 06.30, 07.30, 08.30, 09.30, 10.30, 11.30, 12.30, 13.30, 14.30, 15.30, 16.30, 17.30, 18.30, 19.30, 22.30. Ann: "Angola, Provincia Portuguesa de Africa, de Luanda emite R. Clube de Angola, a vossa Estação . . . ". V. by QSL-card.
13) C.P. 33, Silva Porto. L.P: Dir. Gen: J. da Silva Barradas. Dir. Tec: A. Marques. Dir. Prgr's: J. Cobanco. D.Prgr: N: 06.20 (W), 11.20, 18.20. Ann: "Esta é a Voz do Coração de Angola, Radio Clube do Bie, transmitindo de Silva Porto, capital do Distrito, com toda a sua rede de emissores". Int-Sig: Gong. V. by QSL-card.
14) C.P. 83, Malanje. Te: 30. L.P: Pres: J. B. P. do Amaral. Dir. Prgr: J. de Sousa Berenguel. Dir. Tec: J. C. A. de Silva. D.Prgr: N: 06.30, 11.50, 19.00, 22.00 (Sat). Mw: 06.00-09.00 11.00-14.00 (Sat/Sun 16.00), 16.00-22.00 on 1169kHz. Ann: "Aqui Portugal transmite o R. Clube de Malanje em Angola, Provincia de Africa". Int-Sig: Some movements from "Reida Festa" on Guitar. V. by QSL-card.
15) C.P. 74, Luso. Cable: Radioclube. L.P: Pres: J. P. de Albuquerque. Vice-Pres: L. R. S. Bravo. Secr: E. M. Conçalves. D.Prgr: N: Relayed from R. Angola between 07.30 and 19.30. (Reported using 5192kHz.) Ann: "R. Clube do Moxico, em Luso, Angola, Provincia Portuguesa em Africa". Int-Sig: Gong. V. by letter. F.Pl: A 5kW tr. to operate from Jan. 1970.
16) C.P. 116, Cabinda. Te: 116. L.P: Pres: Dr J. Delgado. Dir. Tec: A. T. Monis. D.Prgr: N: 06.30, 12.00, 17.30 (Sun), 19.00 (W). Ann: "Aqui Cabinda, Angola, Provincia Portuguesa d'Africa transmite o R. Clube de Cabinda". Int-Sig: Gong. V. by QSL-card or letter.
17) C.P. 3159, Luanda. Te: 27006. Cable: Vozango. L.P: Dir. Gen: M. H. de Carvalho. Dir. Tec: C. A. Felicio. Dir. Prgr's: A. Mateus, C. Albuquerque. Ann: "Esta e A Voz de Angola, Emissora de todos para todos os Portugueses, A. Voz de Angola, A Voz da Cordealidade".
V. by QSL-card. Rec. acc.

Medium Waves:
18) **A Voz de Luanda**, C.P. 6543. Te: 2907. L.P: Dir. Gen: C. Moutinho. Dir. Tec: M. Santos. D.Prgr: 06.00-23.00 (in chain with R. Comercial de Angola). Ann: "Aqui Portugal, da Cidade Capital de Angola transmite 'A Voz de Luanda'." V. by letter.

ASCENSION ISLAND (British)

L.T: GMT — Pr.L: English.

VOLCANO RADIO (Priv.)
Operated by members of RCA and Pan-American Airways and Bendix Radio.
ADDR: Volcano Radio, Ascension AAF, Patrick AFB, Fla. 32925, USA — L.P: Mgr: J. Irvin.
STATIONS: ZD8VR 1600kHz 187.5m 1kW. FM: 99.0MHz 0.045 kW.
D.Prgr's in English: 24h (mostly AFRTS material).
ANN: "This is Volcano Radio, ZD8VR, the Voice of the South Atlantic" — V. by letter.

RADIO ASCENSION (BBC operated)
Operated by the BBC Atlantic Relay for the benefit of local residents.
ADDR: c/o BBC Atlantic Relay Station, English Bay, Ascension Island, South Atlantic.
STATION (English Bay): 1484kHz 202.2m 0.2kW.
D.PRGR'S in English: 24h (relay BBC World Sce. exc. for local N. Fri 19.55-20.00 and occ. local prgrs).

BBC ATLANTIC RELAY
4 x 250kW tr's for relays of BBC-World Sce, as well as French, Hausa & English Sce's to Africa, and Latin American Sce. (Portuguese & Spanish.)

kHz	m	kHz	m	kHz	m
6010	49.92	9650	31.09	15235	19.69
7105	42.22	11820	25.38	15260	19.66
9510	31.55	11860	25.30	15310	19.60
9580	31.32	15105	19.86	15400	19.48
9600	31.25	15180	19.76	17740	16.91

Full details of tr's are included in the BBC schedule under Great Britain.

BOTSWANA (Rep.)

L.T: GMT + 2h — Pr.L: English, Setswana.

RADIO BOTSWANA (Gov.)
ADDR: P.O. Box 52, Gaberones. Te: 366. Cable: Broadcasts.
L.P: Officer in Charge: P. Molefhe. Ag. Chief Eng: G. B. Sergeant.

STATIONS:

kHz	m	kW	kHz	m	kW	kHz	m	kW
971	309.0	1	4845	61.92	10	9590	31.28	10
3356	89.40	10	5965	50.29	10			

HOME SCE. in English, Setswana: Mon-Fri 04.00-05.30, 15.30-19.00 (Fri 21.00) on 971/3356/4845kHz + FM; 07.45-10.15, 12.15-13.15 (Thurs/Fri 14.00) on 971/5965/9590kHz + FM — Sat & Sun 04.00-21.00 on 971kHz + FM; On 3356kHz: 04.00-05.00, 15.30-21.00; On 4845kHz: 04.00-06.15, 14.15-21.00; On 5965kHz: 05.15-15.15, On 9590kHz: 06.30-14.00.
N: English: 04.20(W), 05.00(BBC)(W), 06.00(BBC) (Sun), 11.00 (BBC) (Sat/Sun), 16.00(BBC) (exc. Sat), 16.10(W), 18.00 (BBC) — **Setswana:** 04.30(W), 06.15(Sun), 16.20(W).
ANN: "This is R. Botswana broadc. from Gaborone" — **INT-SIG:** Cow Bells. Nat. Anthem at opening and closing — V. by QSL-card — **PUB:** prgr. sheet on request — **F.PL:** five 1kW mw regional tr's; Commercial programmes and 100kW sw-tr in 1970 or 1971 — **ALF:** R. 2.50 — **EC:** a/c 50 (Yes).

BURUNDI (Rep.)

L.T: GMT + 2 h — Pr.L: Kirundi, Swahili, French —

LA VOIX DE LA REVOLUTION (Gov.)
ADDR: B.P. 1900, Bujumbura. Te: 2236. **Cable:** Radio-diffusion — **L.P:** Dir: R. Minani. Dir. Prgr's: J. Balibwegure.
STATIONS (G.C: 29.21E/03.23S):
1115kHz 269.1m 1kW — 6140kHz 48.86m 10kW.
HOME SCE. in French, Kirundi, Swahili: W 04.00-06.00, 10.00-13.00, 15.30-21.00; Sat 04.00-06.00, 10.00-21.00; Sun 04.00-21.00.
N. in French: 04.30, 10.45, 15.45, 18.00, 18.30, 20.50 — **N. in Kirundi:** 04.40, 11.00, 16.45, 17.00, 19.30 — **N. in Swahili:** 04.50, 11.15, 17.30, 19.37.
ANN: "Ici Bujumbura, station de Radiodiffusion de la République du Burundi, la Voix de la Révolution. Nous émettons dans les bandes des 49 et 269m", or for two networks: "la chaîne de Bujumbura et la chaîne nationale, sur la chaîne de Bujumbura, émettant dans la bande des 269m, soit 1115kHz et sur la chaîne nationale, dans la bande des 49m soit 6140kHz".
INT-SIG: A Rundi (umuduli) vocal bow: This is an ordinary bow that is stretched over the tendon of an ox, fitted with a calabash bowl instead of a resonance box. This instrument produces a monotonous rhythmical tone consisting of two characteristic sounds — V. by QSL-card. Rec. acc.

RADIO CORDAC (Missionary Broadc. St.)
ADDR: B.P. 1140, Bujumbura. Te: 2503. **Cable:** Cordac — **L.P:** St. Mgr: J. E. Morris. Dir. of Inf: C. B. Kirkpatrick. Dir. Tec: D. Riley.
STATIONS: 9UZ23 1400kHz 214m 0.25kW.
9UZ22 3985kHz 75.28m 0.5kW — 9UZ24 4895kHz 61.29m 2.5kW.
HOME SCE: 03.30-05.30 (Sun 07.30), 09.30-11.00, 16.30-19.15 (rig's and musical prgr's) — **English:** 03.30-03.45, 05.15-05.30, 06.45-07.30 (Sun), 09.30-10.00, 16.30-17.30 — **French:** 05.00-05.15, 06.00-06.45 (Sun), 10.00-11.00, 18.45-19.15 (Mon & Fri 18.30-18.45). Other times in Kirundi, Swahili.
ANN: E: "This is R. Cordac Bujumbura, Burundi, the Central African Broadc. Co. Incorporated" — **INT-SIG:** "Come Ye Thankful People Come" played on Carillon — V. by QSL-card. Recordings accepted. Rp. — **PUB:** "Skywaves" bi-monthly in English.

CAMEROON (Fed. Rep. of)

L.T: GMT+1 h — Pr.L: French, English, Vernaculars — E.C: a/c 50 (no).

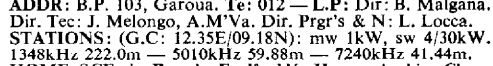
RADIODIFFUSION DU CAMEROUN (Gov.)
ADDR: B.P. 281, Yaoundé. Te: 4635. **Cable:** Radio Cameroun — **L.P:** Federal Dir: D. Amiot-Priso. Dir. Tec: M. Kamden, Chief Editor: S. Chumfong. Asst. Chief Editor: J. Itotok.

RADIO YAOUNDE (Nat. st.)
ADDR: B.P. 281, Yaoundé. Te: 4635. **Cable:** Radio Yaoundé. **L.P:** Dir. French Sce: J. Atangana. Dir. English Sce: D. Endeley. Dir. Tec: D. Fots & E. Nguimba.
STATIONS (G.C: 11.32E/03.51N):

kHz	m	kW	kHz	m	kW
998	300.6	10	6040	49.67	4
1286	233.3	1	9760	30.74	30
4972.5	60.33	30	9760	30.74	4

HOME SCE: W 04.30-07.00 (Sat 11.00) on 998/1286/4972 kHz, 11.00-14.30 (Sat 17.00) on 998/1286/9760kHz, 16.00 (Sat 17.00)-22.30 (Sat 23.00) on 998/1286/4972kHz, Sun 05.00-11.00 on 998/1286/4972kHz, 11.00-17.00 on 998/1286/9760kHz, 17.00-23.00 on 998/1286/4972kHz.
D exc. Sat: French 05.00-05.30, 06.00-07.00 (Thurs 07.30), 11.00-13.00, 16.00-17.30, 18.45-22.30. **English:** 05.30-06.00, 13.00-14.30, 17.30-18.45. **Ewondo:** 04.30-05.00.
Sat: French: 05.00-05.30, 06.00-08.05, 11.00-13.30, 14.45-18.00, 18.45-23.00. **English:** 05.30-06.00, 08.05-09.00, 13.30-13.45, 18.00-18.45.
ANN: "Ici Yaoundé, Radiofifff. de la Républic Fédérale du Cameroun, Poste National". E: "This is Yaoundé the Nat. Broadc. System of the Federal Rep. of Cameroon" — **INT-SIG:** Local music on balafon — V. by QSL-card or letter. Rp. Re. in English, French.

RADIO DOUALA (Gov.)
ADDR: B.P. 986, Douala. Te: 4575. **Cable:** Radio Douala — **L.P:** St. Dir: Jean-Louis Bitchoka. Dir. Tec: J. Mbianque. Dir. Prgr: A. Ngangue.
STATION (G.C: 09.41E/04.04N): 1106kHz 271m 10kW.
HOME SCE. in French, English, Vernaculars:
French: W 05.00-07.00, 11.00-13.45, 17.00-22.00 (Sat 05.00-23.00); Sun 06.00-23.00. **N. in English:** 05.45-06.00 (W), 14.00-14.15 (Sat only), 18.30-18.45 (D). **Vernaculars:** Mon-Fri 05.05-05.45, 17.00-17.45.
ANN: F: "Ici Douala, station regionale de la Radiodiff. du Cameroun" — **INT-SIG:** At opening and close down and 11.15 and 17.00: Hymn of Cameroon: "O Cameroun becreau de nos ancetrès" fanfare.



V. by QSL-card or letter. Rp — **PUB:** Prgr. sched. (weekly).

RAD GAROUA (Gov.)
ADDR: B.P. 103, Garoua. Te: 012 — **L.P:** Dir: B. Malgana. Dir. Tec: J. Melongo, A.M'Va. Dir. Prgr's & N: L. Locca.
STATIONS: (G.C: 12.35E/09.18N): mw 1kW, sw 4/30kW. 1348kHz 222.0m — 5010kHz 59.88m — 7240kHz 41.44m.
HOME SCE. in French, Foulfouldé, Hausa, Arabic, Choa: W 05.00-07.00, 11.00-13.00 (Fri 13.30, Sat 14.00), 17.00-22.00; Sun 05.00-14.00, 17.00-22.00.
French: W 06.00-07.00, 11.00-12.15, 17.00-19.30; Sun 06.30-12.30, 17.00-19.30.
Foufouldé: Fri/Sat 05.00-06.00, 12.15 (Sat 12.30)-13.30, 19.30-20.30, 21.10 (Sat 21.25)-22.00; Sun 05.00-06.30, 12.30-14.00, 19.30-22.00; Other days 05.00-06.00, 12.15-13.00, 19.30-20.30, 21.10-22.00.
Hausa: 05.35-05.40 (W), 13.30-13.45 (Sat & Sun), 20.30-20.45 (D), 21.00-21.05 (W), 21.00-21.45 (Sun), 21.10-21.25 (Sat).
Arabic/Choa: 05.40-05.45 (W), 13.45-14.00 (Sat/Sun), 20.45-21.00 (D), 21.05-21.10 (Sat), 21.05-21.25 (Tues).
ANN: "Ici Garoua Radiodiff. de la République Féderale de Cameroun" — **INT-SIG:** Flute & Tam-tam — V. by QSL-card Rp.

RADIO BUEA (Gov.)
ADDR: R. Cameroon, Buea Station, Buea. Te: 26225. **Cable:** Radio Buea. — **L.P:** Chief of Station: C. F. K. Ndikintum. Dir. of Prgrs: Th. Abanda. Dir's of Technical Services: G. Nitcheu (Lower freq's): A. Ayongo (Higher freq's).
STATIONS (G.C: 09.14E/04.09N):
3970kHz 75.57m 8kW — 6005kHz 49.96m 4kW.
HOME SCE. in English, French & Cameroon Languages: Mon-Fri 04.30-07.30, 11.00-14.30, 16.00-22.00; Sat 04.30-07.30, 11.00-22.00; Sun 05.00-22.00.
On 3970kHz: 04.30-07.30 (Sun 05.00-16.50), 16.50-22.00. On 6005kHz: 11.00 (Sun 06.50)-16.50.
NEWS: English: *05.45 (W), *06.00 (Sun) *12.00, *18.30 Local N. in English: Mon 05.15, 17.30. French: *06.15 (W), *07.00 (Sun), *12.15, *19.00-*) rel. from Yaounde.
ANN: E: "This is R. Buéa of the Federal Republic of Cameroon Broadcasting System transmitting from Buéa." F: "Ici R. Diff. de la République Féderale du Cameroun émettant de Buéa."

CANARY ISLANDS (Spanish)

L.T: GMT — Pr. L: Spanish — EC: a/c 50 (no).

RADIO NACIONAL DE ESPANA (Centro Emisor de Atlantico)
ADDR: Valentin Sanz 4, Pisos 5° y 6°, Sta. Cruz de Tenerife. Te: 244187. **L.P:** Dir: J. de Rojas Mora.
STATIONS: mw 100kW, sw 50kW.

kHz	m	kW	kHz	m	kW	kHz	m	kW
620	483.9	100	11800	25.42	50	15360	19.53	50

D.Prgr's: On 620kHz: 06.45-01.00. On 90MHz: 13.00-16.00, 18.00-23.00. N: 07.00, 08.00, 09.00, 10.00, 11.00, 13.30, 15.00, 16.00, 17.00, 18.00, 21.00, 23.00, 24.00.
On 11800/15360kHz: 20.00-04.00 (relay Madrid for Latin America) — ANN: "R. Nacional de España en Canarias, Centro del Atlántico" — **INT-SIG:** Marcha de "La Generala" V. by QSL-card or letter.

LA VOZ DE LA ISLA DE LA PALMA
ADDR: Emisora Sindical, Santa Cruz de la Palma. Te: 311549. Cable: Voz Isla Palma.
STATION: ECS16 1385kHz 216.6m 0.5kW — FM: 89.15 MHz.
HOME SCE. in Spanish: 08.00-23.00, N: 09.10, 12.10, 13.30*, 14.15, 21.00* (*=rel. R.N.E.) — ANN: "La Voz de la Isla de la Palma Emisora Sindical, Santa Cruz de la Palma" — INT-SIG: "La Orgia Dorada" (Military March) — V. by letter. Rec. acc.

RADIO ATLANTICO (Comm.)
ADDR: Ca. General Franco 50, Las Palmas. Te: 221083. L.P: Dir. A. Gutierrez P.
STATIONS: 1097kHz 273m 20kW — FM: 88. 7MHz 1kW.
HOME SCE. in Spanish: D 06.55-01.00. N: 07.30, 08.00, 08.45, 12.00, 13.30, 14.00, 18.00, 20.00, 21.00, 24.00 (relay R. Nacional exc. 08.45, 14.00). Prgr. in Swedish/English (for Tourists): D 09.00, 19.00 (Producer Xavier Palin) — ANN: Sp: "Transmite R. Atlantico, E.C.S. no 4, Emisora Sindical de las Palmas de Gran Canaria, Islas Canarias" — INT-SIG: Canary guitar chords — V. by QSL-card or letter. Rec. acc.

RADIO LAS PALMAS (Comm.)
ADDR: Calle Triana 134, Dpdo, Las Palmas de Gran Canaria. Te: 220351.
HOME SCE: EAJ50 953kHz 314.6m 10kW: 07.00-01.00. N: 08.00, 08.30, 09.30, 13.30, 14.30, 21.00, 21.15 (local). ANN: "Transmite EAJ50 R. Las Palmas" — INT-SIG: Pasodoble "Islas Canarias" — V. by QSL-card. Rec. acc.

RADIO CLUB TENERIFE (Cult.)
ADDR: Suárez Guerra 33, Santa Cruz de Tenerife. Te: 243542.
STATION: EAJ43 1412kHz 212.4m 1kW: 08.00-24.00 (Reported with German Prgr. at 10.00-11.00 & 18.00-19.00) — ANN: Sp: "Aqui R. Club Tenerife, emisora EAJ43, en Santa Cruz de Tenerife, Islas Canarias" — INT-SIG: "Islas Canarias" — V. by letter.

RADIO JUVENTUD DE CANARIAS (C.A.R.)
ADDR: General Morales 1, Santa Cruz de Tenerife. Te: 245998 — L.P: Dir: J. Agustin Gómez.
STATIONS: EFJ-57 881kHz 340.5m 10kW+FM 93.9MHz 0.25kW — HOME SCE: 08.00-24.00.
ANN: "R. Juventud de Canarias" — INT-SIG: The first notes from "Tierra Canaria" — V. by letter.

RADIO POPULAR DE GUIMAR
ADDR: Calle San Pedro Arriba 4, Cuidad de Güimar (Tenerife).
STATION: EAK83 1439kHz on 208.5m 2kW — HOME SCE: 08.00-23.00 — ANN: "Radio Popular de Güimar, Emisora Diocesana de la Enseñanza".

RADIO POPULAR TENERIFE
ADDR: Calle Rey Redondo 49, La Laguna (Tenerife) — L.P: Dir: J. Siverio — STATION: EAK64 1133kHz 264.8m 10.8kW — FM: 97.15MHz 1kW — HOME SCE: 07.00-23.00.
ANN: "Radio Popular de Tenerife, Emisora Diocesana de Tenerife, La Laguna".

LA VOZ DEL VALLE DE LA OROTAVIA
ADDR: Plaza del Ayuntamiento, Villa de la Orotava.
STATION: CES25 1480kHz 202.7m 0.4kW — ANN: "La Voz del Valle de la Orotava, Emisora Sindical, la Orotava, Tenerife".

RADIO ECCA (Cultural)
ADDR: R. Popular de Gran Canaria, Apartado 994, Las Palmas. Te: 261212 — L.P: Dir. Gen: F. Villén Lucena S.J. Dir. Tec: J. Ruiz A.
STATION: EAK92 1268kHz 236.6m 10kW — 94.3MHz.
HOME SCE. in Spanish: W 09.00-23.00, Sun 09.00-21.00.
ANN: "R. Popular de Gran Canaria de la Cadena de Ondas Populares Españolas, EAK92, Radio ECCA, Emisora Cultural de Canarias" — V. by letter.

CAPE VERDE ISLANDS (Portuguese)

L.T: GMT — 2h — Pr.L: Portuguese, English.
REPARTICAO PROVINCIAL DOS SERVICOS DOS CORREIOS, TELEGRAFOS E TELEFONES DE CABO VERDE, Praia — L.P: Dir. A. da Silva Ramalho.
RADIO CLUBE CABO VERDE (Pr.)
ADDR: C.P. 26, Praia. Te: 344. Cable: Radio Clube — L.P: Dirs: A. B. da Fonseca, O. J. Mascarenhas, O. B. Macedo, J. M. de Macedo.
STATION: 3960kHz 75.76m 5kW — FM 98.0MHz 0.05kW.
HOME SCE. in Portuguese: 21.00-23.00 on 3960kHz. N, Wrp: 22.15.
ANN: "Aqui Praia Estação de Ondas Curtas do R. Clube de Cabo Verde" — INT-SIG: Five notes on Marimba — V. by QSL-card.
R. BARLAVENTO (Gov.)
ADDR: C. P. 29, S. Vicente.
STATION: CR4AC 3910kHz 76.73m 1kW.
HOME SCE: W 13.00-14.00, 20.00-22.00; Sun 09.00-11.00, 13.00-15.00, 20.00-22.00 — N: 09.00, 22.00.
ANN: "Aqui Portugal, Provincia Ultramarina de Cabo Verde, Fala vos de S. Vicente a estação emissora de ondas curtas da Rádio Barlavento, a irradiar na frequencia de 3910kHz/seg, bando dos 75m" — INT-SIG: Gong and "Forca de cretcheu" (folklore) on guitar — V. by QSL-card. Rp.
RADIO CLUBE MINDELO (Pr.)
ADDR: C.P. 101, S. Vicente. Te: 476. L.P: Pres: F. J. Martins. Secr: D. C. Monteiro. Dir. Prgr: E. de Matos. Dir. Tec: J. Azavedo.
STATION: CR4AB 4715kHz (variable) 63.63m 0.25/0.45kW.
HOME SCE: W 07.00-09.00, 11.00-13.00 18.00-20.00.
ANN: "Aqui R. Clube Mindelo estação de ondas curtas operando no comprimento de ondas de 63.53m freq. de 4715kHz" — V. by QSL-card or letter.

CENTRAL AFRICAN REPUBLIC

L.T: GMT + 1 h — Pr.L: Sango, French — EC: a/c 50 (yes).
RADIODIFFUSION NATIONALE CENTRAFRICAINE (Gov.)
ADDR: B.P. 940, Bangui. Te: 2355 — L.P: St. Dir: V. Teteya. Dir. Tec: M. Mercier. Dir. N: R. Nzengou. Dir. Prgr's: J. Dasilva.
STATIONS (G.C: 18.35E/04.21N): mw 1kW, sw 30kW: 1570kHz 190m — 5035kHz 59.58m — 9595kHz 31.27m.
HOME SCE: W 04.30-07.00 on 1570/5035kHz, 10.30-14.00 (Sat 16.30) on 1570/9595kHz, 16.30-22.30 on 1570/5035 kHz; Sun 06.30-16.30 on 1570/9695 kHz, 16.30-22.30 on 1570/5035 kHz.
N: French: 05.45, 08.00 (Sun), 11.45, 13.00, 18.30, 21.30. English: 19.30, 20.30 (Sun), Sangó: 05.30, 08.15 (Sun), 12.30, 17.15.
ANN: "Ndoso Bangui . . . Ici Bangui Radiodiff. Nationale Centrafricaine" — INT-SIG: National Anthem and st Sylvestre — V. by QSL-card — ALF: CFA 500, —

CHAD (Rep.)

L.T: GMT + 1h — Pr.L: French, Arabic, Sara — EC: a/c 50 (no).
RADIODIFFUSION NATIONALE TCHADIENNE (Gov.)
ADDR: B.P. 892, Fort Lamy. Cable: Radio Tchad. Te: 2273. L.P: St. Mgr: N. Djimbaye. Ag. St. Mgr. & Dir. Tec: I. M. Amane. Reg. Gen: H. Habib.
STATIONS (G.C: 15.03E/12.08N):

kHz	m	kW
1538	195.0	1: all times
4904.5	61.18	30: morning + evening
7120	42.13	30: daytime
9615	31.20	4: daytime

HOME SCE: 04.30-06.30 (Sun 08.00) on 1538/4904.5kHz, 12.30 (Sun 08.00)-16.10 on 1538/7120/9615kHz, 16.10-21.30 (Sat 23.00) on 1538/4904.5kHz.
NEWS: French: 05.30, 06.25, 12.30, 19.00, 21.15. Arabic: 05.40, 17.25, 21.20. Sara: 05.50, 13.30, 21.25. Gorane: 14.10. Kanembou: 14.40. Toupouri: 15.25. Moundang: 15.55. Foulbé: 16.25. Massa: 17.10.
ANN: "Ici Fort Lamy, Radiodiff. Nationale Tchadienne émettant dans les bandes . . . " or "Ici Fort Lamy, Radiodiff. Nationale Tchadienne" — INT-SIG: Balafon — V. by QSL-card Rp. Rec. acc. — PUB: Prgr. sched. (weekly).

COMORO ISLANDS (French)

L.T: GMT+3 h — Pr.L: French, Vernaculars.
OFFICE DE RADIODIF. TELEVISION FRANCAISE (ORTF)
ADDR: B.P. 250, Moroni, Comores. Te: 203 — L.P: St. Mgr: A. J. Daumas. Dir. Tec: R. Poncelet.
STATIONS (G.C: 45.17E/12.45S):
3331kHz 90.06m — 7260kHz 41.32m 4kW
FM: 96.0MHz 0.05kW.
HOME SCE. in French, Comorian: 03.30-05.00, 09.00-11.00 (Sun 05.00-11.00) on 7260kHz, 15.30-19.30 on 3331kHz.
N. in French: 04.00 (W), 05.15 (Sun), 09.30, 16.45, 17.00.
N. in Comorian: 03.45, 19.00. Wrp: 17.00. Time Signals: 04.00, 09.30, 17.00.

ANN: "Ici Moroni, Office de Radiodiffusion Télévision Française" — INT-SIG: Folklore Music played on native instrument — V. by letter. Rp. Recordings accepted — PUB: Prgr. schedule (monthly).

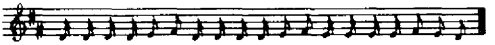
CONGO (Dem. Rep. of)

L.T: Kinshasa/Mbandaka GMT + 1h; Lubumbashi/Kisangani. GMT + 2 h — Pr.L: French, Lingala, Kikongo, Tshiluba, Swahili.

RADIODIFFUSION-TELEVISION NATIONALE CONGOLAISE (Gov.)
ADDR: B.P. 3171, Kinshasa. Te: 3171.
STATIONS (G.C: 15. 18E/04.20S):

kHz	m	kW	Times	kHz	m	kW	Times
*838	358.0	10	04.00-03.00	9775	30.69	10	04.00-03.00
1448	207.2	1	04.00-03.00	11720	25.60	10	04.00-11.00
4880	61.48	10	04.00-03.00	11795	25.43	10	11.00-22.00
7115	42.16	10	04.00-03.00	15245	19.68	100	04.00-22.00

*) nom. frequency 836kHz — FM: 90MHz 0.25kW.
HOME SCE. in French/Vernaculars: as above.
N. in French: 04.30, 06.30, 10.30, 11.30, 12.30, 16.30, 18.30, 20.30, 23.00, 01.00
ANN: "Ici Kinshasa, R. diff. Télévision Nationale Congolaise" — INT-SIG: Central Theme of National Anthem.



REGIONAL STATIONS
Radio Lubumbashi — Addr: B.P. 7296, Lubumbashi.
Stations (G.C: 27.32E/11.41S):

kHz	m	kW	H. of tr.
4750	63.16	10	see below
5955	50.39	10	
7208	41.62	10	
9540	31.45	20	
11866	25.28	100	15.00-21.00

Home Sce in French, Swahili & Vernaculars: W 04.00-07.00, 10.00-12.30 (Sat 14.30), 14.30-22.00; Sun 04.00-22.00 on 4750/5955/7208/9540kHz. Portuguese: Thurs 18.00-18.30. Foreign Sce. on 11866kHz: Not reported recently.
Ann: Home Sce: "Ici Lubumbashi, R. diff. Télévision Nat. Congolaise, station interprovincial du Katanga". Foreign Sce: "Ici Lubumbashi, la Voix de la Fraternité Africaine chain mondiale de la R. Diff. Télévision Nat. Congolaise". E: "This is the Voice of African Brotherhood". P: "Aqui Lubumbashi, a Voz de Fraternidade Africano".

R. Mbandaka — Addr: B.P. 1061, Mbandaka.
5993kHz 50.05m 10kW: 05.00-07.30, 10.00-13.00, 15.30-21.00.
R. Bukavu — Addr: B.P. 475, Bukava.
4839kHz 62.00m 10kW: 04.00-06.30, 10.00-13.00, 15.30-20.00 (Sat 21.00); Sun 04.00-21.00.
R. Kasai — Addr: B.P. 708. Luluabourg. Te: 2417. L.P: St. Mgr: L. Mibanga. Dir. Prgr's: F. Tshibanga.
Station: 6125kHz 48.98m 10kW: W 04.00-06.30, 10.00-12.30, 14.30-20.00 (Sat 10.00-20.00): Sun 04.00-20.00. N. in French: 04.30, 07.30 (Sun), 10.30, 16.30 (W), 17.00 (Sun), 19.15 — V. by letter. Recordings accepted.
R. Kisangani — Addr: B.P. 1745, Kisangani.
6085kHz 49.30m 10 kW: 04.00-06.30, 10.00-13.30, 15.00-20.00.
R. Mbuji-Mayi — Addr: B.P. 2132, Mbuji-Mayi.
7300kHz 41.09m 20kW: 04.00-06.30, 10.00-13.00, 15.30-20.00.

CONGO (Rep.)

L.T: GMT + 1 h — Pr.L: French, English, Portuguese — EC: a/c 50 (yes).

RADIO BRAZZAVILLE (ORTF)
ADDR: P.O. Box 108, Brazzaville. Te: 2234. — L.P: Chief of Sce. R. Branellec.
STATIONS (G.C: 15.18E/04.15S):

kHz	m	kW	kHz	m	kW	kHz	m	kW
3232	92.82	1.5	9730	30.83	15	15190	19.75	50
4795	62.57	4	11710	25.62	50	15445	19.43	50
5970	50.25	4	11725	25.58	50	17720	16.93	50
7105	42.22	4	11930	25.15	50	21500	13.95	50/1.5
9715	30.88	50	11970	26.06	4			

INTERNATIONAL SERVICE:
I = Africa; II = Madagascar; III = Far East

Times	Areas	kHz
05.00-07.30	I + II	3232/4795/5970/9730/11725/15445
11.00-12.00	I	11970/15445
11.00-12.55	I + II	3232/7105/11710/15190/21500
13.00-17.05	I	3232/15190 (relay France-Inter)
13.00-14.00	III	17720/21500
14.00-16.00	III	11710 (relay France-Inter)
14.00-17.00 (Sun)	I	3232/7105/11710/17720/21500
17.00-21.00	I	3232/5970/7105/9730/11930/15190

NEWS: French: 05.00, 06.00, 07.00, 11.30, 12.30, 18.00, 19.00, 20.30. English: 05.15, 06.15, 11.00, 19.15. Portuguese: 11.45, 18.45.
ANN: "Ici ORTF émettant de Brazzaville".
INT-SIG: Five different notes played on a native instrument (Kizanzi) consisting of several vibrating iron bars attached to a wooden box — V. by QSL-card or letter. Rp — PUB: Prgr. sched.

RADIODIFFUSION TELEVISION CONGOLAISE (Gov.)
ADDR: B.P. 2241, Brazzaville. Te: 4334. Cable: Radio Congo.
L.P: Dir: G. Bikouta-Menga. Dir. Tec: A. Ondongo. Dir. Prgr: A. Bimbakila.
STATIONS (G.C: 15.18E/04.15S):* Pointe Noire (relay).

kHz	m	kW	kHz	m	kW	kHz	m	kW
1475	203.4	4	6115	49.06	50	9610	31.22	50
*1520	197.4	1	7175	41.81	25	9715	30.66	50
*4765	62.96	50						

HOME SCE. in French, Vernaculars: 04.30-06.30 on 1475/4765/6115kHz, 11.00-13.15 & 15.30-17.00 (Sun 06.30-17.00) on 1475/6115/7175/9610kHz, 17.00-21.00 (Sat 22.00) on 1475/4765/6115kHz (17.00-19.00 also on 9715 kHz). N. in French: 04.45, 05.30 (Sun 09.00, 10.00), 11.30, 12.30, 20.45. N. in Lingala/Kikongo: 11.05, 17.15 (Sun 17.30). ANN: "Ici la voix de la Révolution Congolaise, Station Nationale de Radiodiffusion Télévision" — V. by QSL-card. Rp. Recordings accepted — INT-SIG: Zani solo (Native instrument).

DAHOMEY (Republic)

L.T: GMT + 1 h — Pr.L: French, Vernaculars — EC: a/c 50 (yes).

RADIODIFFUSION DU DAHOMEY (Gov.)
ADDR: B.P. 366, Cotonou. Cable: Radiodahomey. Te: 2040.
L.P. St. Mgr: E. D. Ologoudou.
STATIONS (G.C: 02.35E/06.21N):* Parakou.

kHz	m	kW		kHz	m	kW	
1475	203.4	1	all times	3270	91.74	4	all times
1578	195.4	0.1	all times	4870	61.60	30	night only
*1538	190.1	0.1	all times	7190	41.72	30	day only

HOME SCE in French & Vernaculars: Mon-Fri 05.15-07.00, 11.30-13.00 (Thurs, Fri 13.15), 16.30-22.00; Sat 05.15-07.30, 12.00-23.00; Sun 07.00-22.00.
NEWS: French: W 05.30, 06.15, 12.00, 12.40 (Sat), 12.55, 13.10 (Thurs, Fri), 15.00 (Sat), 16.30, 18.00, 19.00, 21.15; Sun 08.00, 12.00, 14.00, 18.00, 19.00. Vernaculars: 12.15-12.35, 13.00-13.20 (Sat), 16.34-18.15 (W), 17.30-18.29 (Sun). English: 19.25-19.35 (W).
ANN: French: "Ici Cotonou, Radiodiff. du Dahomey émettant sur . . . " INT-SIG: Dahomey Tam-Tam — V. by QSL-card. Rp. Recordings accepted — PUB: Prgr. schedule (weekly) — ALF: CFA 500, —.

EGYPT (United Arab Rep.)

No details received at time of printing

ETHIOPIA

L.T: GMT + 3 h — Pr.L: Amharic, English, Somali, Arabic, French, Afar — E.C: a/c 50 (yes).

RADIO ETHIOPIA (Semi Autonomous)
ADDR: Ethiopian Broadc. Sce, P.O. Box 1020, Addis Ababa. Te: 15933. Cable: Ethiopress — L.P: Gen. Mgr: N. Haptewold.
STATIONS (G.C: 28.43E/08.58N):

kHz	m	kW	kHz	m	kW
*854	351.3	100	6185	48.50	100
872	344.0	10a)	7290	41.15	10
**944	318.0	50			

*) Harar; **) Asmara; Others Addis Ababa. a) to be increased to 100kW.
HOME SCE (National): Amharic: Mon-Fri 04.30-06.00, 11.00-12.00, 17.00-20.00; Sat 04.30-06.00, 11.00-13.00; Sun 06.30-08.30, 11.00-14.30.

English: W 10.00-11.00, 16.00-17.00; Sun 09.00-11.00. Somali: 03.30-04.30, 05.00-06.30 (Sun), 12.00-13.00 (Sat. 13.00-14.30), 15.30-16.00. Arabic: 08.30-09.00 (Sun), 14.30-15.30. French: 16.00-16.30. Afar: 16.30-17.00. Local Sce. in English on 872kHz: W 06.00-08.00, D 20.00-22.00.
ANN: "This R. Ethiopia broadcasting from AddisAbaba".
INT-SIG: Ethiopan flute (Washint).

RADIO VOICE OF THE GOSPEL — LUTHERAN WORLD FEDERATION BROADCASTING SERVICE (Educ. Rlg.)
ADDR: P.O. Box 654, Addis Ababa. Cable: Lutherworld. Te: PBX 48190 — L.P: Gen. Dir: Sigurd Aske. St. Dir: P. M. Volz. Asst. St. Dir: E. Bauerochse. Prgr. Dir: J. E. Ofstad. Tec. Dir: K. Gobena.
STATIONS (G.C. 38.38E/08.47N): 2 x 100kW tr's:

kHz	m	kHz	m	kHz	m
6065	49.46	11770	25.49	15315	19.59
6170	48.62	11820	25.38	15350	19.54
9525	31.49	11855	25.31	15370	19.52
9570	31.35	11875	25.26	15400	19.48
9680	30.99	11890	25.23	15415	19.46
9695	30.94	11910	25.19	15425	19.45
9705	30.91	15150	19.80	17750	16.91
9725	30.81	15170	19.78	17770	16.88
11730	25.58	15250	19.67	17815	16.84
11735	25.56	15270	19.65	17835	16.82

I = Ea. Africa; II = Madagascar; III = So. Africa; IV = We. Arab countries; V = Congo; VI = We. Africa; VII = Ceylon; VIII = China; IX = India (North); X = India (South); XI = Ea. Arab countries; XII = Iran; XIII = Ethiopia.
Schedule: November 1969-February 1970

Times	kHz	Beam	Area	Language
03.00-03.30	11855	163°	II	French
03.30-04.00	11855	163°	II	Malagasy
03.30-03.55	9725	196°	I	Swahili
04.00-04.25	9725	196°	I	English
04.00-04.25	11855	163°	II	French
04.30-05.55	15370	353°	IV	Arabic
04.45-05.25	15170	237°	V	French
05.30-05.55	11890	267°	VI	English
12.30-13.00	17815	57°	VIII	Mandarin
12.30-13.00	17770	57°	VIII	Mandarin
13.00-13.25	15315	96°	VII	Sinhalese
13.30-13.45	15315	57°	IX	English
13.30-14.00	15150	79°	X	English
13.45-14.28	15315	57°	IX	Telugu
14.00-14.25	15150	79°	X	Tamil
14.30-15.10	15315	57°	IX	Hindi
14.30-15.55	15170	16°	XI	Arabic
15.15-15.55	15270	163°	II	Malagasy
16.00-16.25	15170	16°	XII	Farsi
16.00-16.55	6170	nd	XIII	Amharic
16.30-16.55	11735	16°	XII	Farsi
16.55-17.10	6170	nd	XIII	English
17.00-17.15	9695	196°	XI	English
17.15-17.55	9695	196°	I	Swahili
17.15-18.00	11910	267°	VI	French
18.00-18.28	11910	267°	VI	Fulani
18.00-18.55	9705	196°	III	English
18.30-19.28	11910	267°	VI	Hausa
19.00-19.45	15425	267°	VI	French
19.30-20.15	11910	267°	VI	English

Schedule: March-April 1970 (Tentative)

Times	kHz Main	kHz Altern	Beam	Area	Language
03.00-03.30	11855	11730	163°	II	French
03.30-04.00	11855	11730	163°	II	Malagasy
03.30-03.55	9680	9725	196°	I	Swahili
04.00-04.25	9680	9725	196°	I	English
04.00-04.25	11855	11730	163°	II	French
04.30-05.55	15400	15370	353°	IV	Arabic
04.45-05.25	15170	15250	237°	V	French
05.30-05.55	11890	11820	267°	VI	English
12.30-13.00	17835	17815	57°	VIII	Mandarin
12.30-13.00	17750	17770	57°	VIII	Mandarin
13.00-13.25	15315	15350	96°	VII	Sinhalese
13.30-13.45	15315	15350	57°	IX	English
13.30-14.00	15400	15150	79°	X	English
13.45-14.28	15315	15350	57°	IX	Telugu
14.00-14.25	15400	15150	79°	X	Tamil
14.30-15.10	15315	15350	57°	IX	Hindi
14.30-15.55	15400	15170	16°	I	Arabic
15.15-15.55	15270	15315	163°	II	Malagasy
16.00-16.25	15400	15170	16°	XII	Farsi
16.00-16.55	6065	6170	nd	XIII	Amharic
16.30-16.55	11735	11770	16°	XII	Farsi
16.55-17.10	6065	6170	nd	XIII	English
17.00-17.15	9695	9525	196°	I	English
17.15-17.55	9695	9525	196°	I	Swahili
17.15-18.00	11910	11875	267°	VI	French
18.00-18.28	11910	11875	267°	VI	Fulani

Times	kHz Main	kHz Altern	Beam	Area	Language
18.00-18.55	9705	9570	196°	III	English
18.30-19.28	11910	11875	267°	VI	Hausa
19.00-19.45	15425	15415	267°	VI	French
19.30-20.15	11910	11875	267°	VI	English

N: English: 04.00, 05.30, 13.30, 17.00, 18.00, 19.30. French: 04.15, 05.15, 17.45, 19.00. Amharic: 16.00. Hausa: 18.30. Hindi: 14.30. Swahili: 17.15.
Medium Wave Sce. (for Addis Ababa): 15.00-20.15 on 989kHz 1kW.
ANN: "This is R. Voice of the Gospel, ETLF, Addis Ababa, Ethiopia" — INT-SIG: First four notes of "A Mighty Fortress" on drums — V: by QSL-card. Rec. acc.

GABON (Republic)

L.T: GMT + 1h — Pr.L: French — EC: a/c 50 (no).

RADIODIFFUSION TELEVISION GABONAISE (Gov.)
ADDR: B.P. 150, Libréville. Te: 3784. Cable: Radiotélégabon — L.P: Dir: P. Kounda Kiki. Dep. Dir: M. Ngoua Amvame. Dir. of Sound Broadc: A. Yangari.
STATIONS: *) Libreville; **) Franceville; ***) Oyem; ****) Port Gentil.

kHz	m	kW	Remarks
***1205	249.0	1	relay Libreville
****1232	243.5	1	relay Libreville
**1250	240.0	0.1	relay Libreville
1313	228.5	1	Regional St.
*1554	193.1	1	National St.
*3300	90.91	4	National St.
**3350	89.55	4	relay Libreville
*4777	62.80	30	National St.
**6030	49.75	4	relay Libreville
*9525	31.50	4	National St.

NATIONAL NETWORK: W: 04.30-06.30 on 1554/3300/4777kHz (+1250/3350kHz); 10.30-13.30 (Sat 16.30) on 1554/9525kHz (+1250/6030kHz); 17.30-21.30 (Sat 16.30-23.00) on 1520/4777kHz (+1250/3350kHz); Sun 06.30-16.30 on 1554/9525kHz (+1250/6030kHz); 16.30-21.30 on 1554/4777kHz (+1250/3350kHz).
N. in French: W 04.45, 05.45, 10.30, 11.45, 13.25, 18.30 20.55; Sun 06.45, 07.45, 11.45, 14.00, 18.30, 20.55; also at 17.45 (from Franceville & Oyem).
REG. NETWORK: 19.00-21.30 (Sat 23.00) on 1313kHz.
ANN: "Ici Libréville, Radiodiff. Télévision Gabonaise, La Voix de la Renovation, chaine Nationale/Regionale" — V. by QSL-card or letter.

GAMBIA

L.T: GMT — Pr.L: English, Mandinka, Wolloff, Fula, Sarahuleh, Jala — EC: a/c 50 (yes).

RADIO GAMBIA (Gov.)
ADDR: Bathurst. Te: 316. Cable: Broadcast — L.P: Broadc. Officer: A. M. Lowe, M.B.E. Dir. Tec: P. E. Johnson.
STATION: 4820kHz 62.24m 3.1kW.
HOME SCE. in English, Wolloff & Mandinka: 17.10-21.00; Sat 12.00-14.00, 16.20-21.00; Sun 10.00-14.00, 16.20-21.00.
BBC World News: 18.00-18.09; Nat. N. in English, Wolloff & Mandinka: 18.09-18.45; World & Nat. N. (Summary in English, Wolloff & Mandinka): 20.00-20.15.
ANN: E: "This is R. Gambia broadc. from Bathurst on a freq. of 4820kHz in the 60m.b" — INT-SIG: Music played on the cora, an indigenous harp-like instrument — V. by letter. Re. in E. F or Arabic. Rec. acc. — PUB: Prgr. sched. occasionally.

GHANA

L.T: GMT—Pr.L: Akan, Ewe, Dagbani, Ga, Hausa, Nzema, English — E.C: a/c 50 (no).

GHANA BROADCASTING CORPORATION (Autonomous Statutory Corp.)
ADDR: Broadcasting House, P.O. Box 1633, Accra. Cable: Broadcasts. Te: 21161 — L.P: Dir. Gen: W. F. Coleman, G.M., M.B.E.; Dep. Dir. Gen: E. G. K. Adjorlolo. Dir. of Eng: J. K. Asare. Ag. Dir. of Sound Broadc: E. K. Senya.
STATIONS: G.C: Accra 00.10E/05.42N 1 x 5kW, 2 x 10kW & 1 x 20kW tr's; Ejura 01.22E/07.23N 3 x 20kW tr's used for National Sce; 4 x 100kW tr's at Tema (G.C: 00.01W/05.42N) & 2 x 250kW tr's at Ejura (G.C: 00.00W/05.33N) used for External Sce's.

	kHz	m	kW		kHz	m	kW
Ejura	3350	89.50	20	Tema	6070	49.42	100
Accra	3366	89.13	10	—	6130	48.94	100
—	4915	61.03	10	Accra	7295	41.12	10
Ejura	4980	60.25	20	Tema	9545	31.43	100

RADIO VOICE OF THE GOSPEL

THE LUTHERAN WORLD FEDERATION BROADCASTING SERVICE

ETLF

daily broadcasts in:
Amharic, Arabic, English, French, Fulani, Hausa, Hindi, Malagasy, Mandarin, Persian, Sinhalese, Swahili, Tamil, Telugu.

BEAMED TO:
India
Ceylon
Middle East
Far East
Africa and
Madagascar

WRITE TO:
STATION
ETLF
BOX 654
ADDIS ABABA
ETHIOPIA

	kHz	m	kW		kHz	m	kW
Ejura	9640	31.12	20	—	15285	19.63	250
—	9760	30.74	250	—	17910	16.75	250
—	11800	25.42	250	Tema	21545	13.93	100
—	11850	25.32	250	Ejura	21720	13.81	250

NATIONAL SCE: On 4915kHz: 05.30-08.00, 12.00-23.00 (Sun 05.30-23.00); On 3350kHz: 05.30-08.00 (Sun 09.00), 16.00-23.00; On 9640kHz: 12.00 Sun (09.00)-16.00.

COMMERCIAL SCE: On 3366kHz: 05.30-08.00 (Sun 09.00), 05.30-08.00, 12.00-23.00 (Sun 05.30-23.00).
N: **English:** 06.00, 07.00 11.00 (Sun), 13.00, 14.00, 18.00, 20.00, 21.00. **Ghana Languages:** 05.45, 06.45, 12.15, 12.45, 18.45, 19.30.

EXTERNAL SCE: I = Angola; II = Sudan/Ethiopia; III = East Africa; IV = West Africa; V = South Africa; VI = Central Africa; VII = North Africa; VIII = Europe; IX = North America.

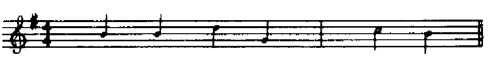
Arabic	kHz	Beam	Area
16.00-16.45	21545	45°	VII
20.00-20.45	9545	10°	VII
English			
14.00-14.30	17910	91°	II
14.00-22.15	6130	nd	IV
15.00-15.45	17910	133°	V
	21545	130°	VI
	21720	91°	III
16.45-17.30	15285	91°	III
18.15-19.00	15285	91°	II
20.00-21.00	9760	313°	IX
	11850	313°	IX
20.45-22.15	9545	10°	VIII
French			
17.30-18.15	6070	nd	IV
	11800	91°	VI
19.00-19.45	9545	10°	VIII
	11800	91°	VI
19.00-22.15	6070	nd	IV
Hausa			
15.00-17.15	6070	nd	IV
18.15-19.00	6070	nd	IV
Portuguese			
14.00-14.15	21545	130°	I
17.00-17.45	21545	130°	I

Swahili	kHz	Beam	Area
14.00-14.30	21720	91°	III
16.00-16.45	21720	91°	III
17.30-18.15	15285	91°	III

17910kHz reported moved to 17870kHz.

NEWS: English: 14.00, 15.00, 16.00, 16.45, 18.00, 18.15, 20.00, 20.45, 21.00, 22.00. **French:** 17.30, 19.00, 20.00, 21.00, 22.00, **Portuguese:** 14.00, 17.00. **Hausa:** 15.00, 16.00, 18.15. **Swahili:** 14.00, 15.45, 17.30. **Arabic:** 16.00, 20.00.

ANN: "This is the Nat. Sce. of the Ghana Broadc. Corpo." preceded by drumming or "This is R. Ghana" — **INT-SIG:** Guitar: First bars of National Anthem.



V. by QSL-card and letter. Re. on technical matters to Propagation Eng; on prgr's to Head of External Sce; Rec. acc. — **PUB:** "The Broadcaster" (monthly), "Radio Review & Times" (weekly), External Service sched.

GUINEA (Equatorial)

L.T: GMT + 1 h — Pr.L: Spanish, Vernaculars.

EMISORA DE RADIODIFFUSION SANTA ISABEL (Gov.)
ADDR: Apt. 195, Santa Isabel, Fernando Póo. **Te:** 382.
STATION: 6250kHz 48.00m 10kW — **HOME SCE:** 07.00-23.00 — **Spanish:** 07.00-15.30, 19.45-23.00; **Fang/Pamue:** 15.30-17.00; **Bubi:** 17.00-18.00; **Annobonés:** 18.00-18.30; **Combe:** 18.30-19.00; **English:** 19.00-19.45.
ANN: "Desde la isla de Fernando Póo, transmite EAJ205 R. Santa Isabel" — **INT-SIG:** "Los Voluntarios" — V. by letter.

RADIO ECUATORIAL (Gov. Comm.)
ADDR: Apt. 57, Bata, Rio Muni. **Te:** 182.
STATION: EAJ206 4926kHz 60.90m 5kW — **HOME SCE.** in Spanish: W 07.00-16.00, 18.00-22.00 (Sat 00.30); Sun 07.00-22.00 — **ANN:** "Transmite R. Ecuatorial Bata, La Voz de Rio Muni".

GUINEA (Portuguese)

L.T: GMT + 1 h — Pr. L: Portuguese.

EMISSORA PROVINCIAL DA GUINE (Gov.)
ADDR: Av. da Republica, Bissau. L.P: Dir. C. Rurivo.
STATIONS (G.C: 15.35W/11.51N): 1034kHz 290.1m 1 kW. 5041kHz 50.50m 10kW.
HOME SCE: 06.00-09.00, 11.00-14.00, 17.00-24.00 (Sun 06.00-24.00). **N:** 13.00, 19.00, 20.30, 22.50.
ANN: "Fala Portugal através da Emissora Oficial da Guiné Portuguesa, a transmitir em ondas médias, no comprimento de 290m freq. de 1.034kHz, em ondas curtas, em 60m freq. de 5.041kHz".
INT-SIG: Guitar — V. by QSL-card or letter. Recordings accepted — **ALF:** Esc. 100,—

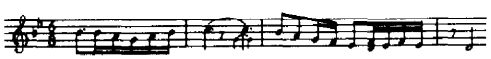
GUINEA (Republic)

L.T: GMT — Pr.L: French, Vernaculars — EC: a/c 50 (yes).

RADIODIFFUSION NATIONALE (Gov.)
ADDR: B.P. 617, Conakry. **Cable:** Radio Guinee. **Te:** 3366.
STATIONS (G.C: 13.40W/09.32N):

kHz	m	kW	kHz	m	kW
1403	213.8	60	7125	42.11	50
4910	61.00	4	15310	19.60	50

HOME SCE. in French & National Languages: W 06.00-08.30, 12.30-13.30 on 1403/4910/7125/15310kHz, 17.00-23.00 on 1403/4910/7125/9650kHz — **N. in English:** 20.20 (irr.).
ANN: F. "Ici la Voix de la Révolution (before news)" or "Ici Conakry, Radiodiff. Nationale" or "Ici Conakry Radiodiff. de la République de Guinee". E: "Here is the Voice of the Revolution" — **INT-SIG:** First movements of the popular heroic song "Alpha Yaya" (first movements of the Guinean National Anthem) on Guitar:



V. by letter.

IVORY COAST (Rep.)

L.T: GMT — Pr.L: French, Vernaculars — EC: a/c 50 (yes).

RADIODIFFUSION TELEVISION IVOIRIENNE (Gov.)
ADDR: B.P. 2261, Abidjan. **Te:** 23514. **Cable:** Radiocotivoire. **L.P:** St. Mgr: C. Nogbou. Dir. Prgr: E. Kouamé. Dir. Tech: G. Tanoh.
STATIONS (G.C: 03.57W/05.21N):

kHz	m	kW	Netw.	kHz	m	kW	Netw.
1240	241.9	4	I	4940	60.73	25	I
1493	200.9	1	II	6015	49.88	100	II
*1578	190.1	5	I	7215	41.58	1	II
3242	92.54	10	I	11920	25.17	100	II

*) Regional St. Baouke (relay).

D.PRGRS: National Netw (I): Mon-Fri 06-00-08.00, 12.00-14.00, 17.00-24.00; Sat 06.00-08.00, 12.00-24.00; Sun 06.00-24.00. **N. in French:** 06.02, 06.45 (W), 07.30 (Sun), 07.55 (W), 09.00 (Sun), 10.00 (Sun), 12.00 (Sun), 12.02 (W), 12.45, 13.55 (W), 19.00, 20.00, 22.30, 23.55. **Vernaculars:** 17.30-18.30.
International Netw (II): On 1493/6015kHz: Mon-Fri 06.30-08.00, 18.00-24.00; Sat 06.30-08.00, 12.00-24.00; Sun 06.30-24.00; On 7215kHz: Sun 08.00-24.00; On 11920kHz: Mon-Fri 12.00-14.00.
N. in French: 06.32 (W), 07.15 (W), 07.30 (Sun), 07.55 (W), 10.00 (Sun), 11.00 (Sun), 12.00 (Sun), 12.02 (W), 12.45, 13.55 (Sun), 15.00 (Sun), 16.00 (Sun), 17.00 (Sun), 18.00 (Sun), 18.02 (W), 20.00, 22.30.
English: W 18.30-19.00. **N:** 18.30 — **Vernaculars:** 19.00-1930 (W).
ANN: "Ici Abidjan, Radiodiff. Télévision Ivorienne, chaine nationale or chaine internationale". E: "This is the Ivory Coast Broadc. System". **INT-SIG:** Vibraphone.

V. by QSL-card. Rp. appreciated.

KENYA

L.T: GMT + 3 h — Pr.L: English, Swahili, Hindustani — EC: a/c 50 (yes).

VOICE OF KENYA (Gov.)
ADDR: Box 30456, Nairobi. **Te:** 24211. **Cable** Broadcasts. **L.P.:** Dir: R. Koske. Chief Eng: R. J. Davey, Comm. Mgr: M. K. White.

HOME SERVICES

General Sce. (English) from Nairobi: Mon-Fri 03.00-06.30, 09.00-11.00, 13.00-20.10; Sat 03.15-21.10; Sun 04.00-20.10. *746kHz 402.1m 100kW — FM: 95.1MHz 1kW: as above. **1286kHz 233.3m 0.5kW — ***1304kHz 230.1m 0.5kW: as above.
4885kHz 61.41m 10kW: 03.00 (Sun 04.00) — 06.30, 13.00-20.10 (Sat 21.10).
7240kHz 41.44m 10kW: 09.00-11.00 (Sat/Sun 06.45-12.45). **N:** 04.00, 06.00, 10.15, 11.00, 16.10 (Sat 16.00, Sun 17.00), 18.00, 18.10 (W).
Nat. Sce. (Swahili) from Nairobi: 03.00 (Sun 04.00)-20.15 (Sat 21.00).
*611kHz 491.0m 100kW — FM: 92.9MHz 1kW: as above. **1106kHz 271.2m 0.5kW — ***1133kHz 264.8m 0.5kW — *Nairobi — **Nyeri — ***Nakuru.
4915kHz 61.03m 100kW: 03.00 (Sun 04.00)-06.30, 13.00-20.15 (Sat 21.15).
4934kHz 60.80m 10kW: 03.00-05.00, 14.30-20.00.
7135kHz 42.05m 100kW: 06.45-12.45.
7210kHz 41.61m 10kW: 05.15 (Sun 06.15)-14.15.
Vernacular Sce. (Swahili, Hindustani, Sambi)
1268kHz 236.6m 50kW: 03.30-05.00
4950kHz 60.66m 5kW: 09.00-11.00
7125kHz 42.11m 5kW: 13.15-18.30
N. in English: D 16.00, 18.00.
Mombasa station: 791kHz 379.3m 20kW: W relays Nairobi in Swahili.
Kisumu station: W 03.00-05.00, 09.00-11.00, 14.00-20.15; Sat 03.00-21.00; Sun 04.00-20.15.
953kHz 314.6m 5kW: rel. Nairobi (Nat. Sce).
4804kHz 62.44m 5kW: 03.30 (Sun 04.00)-05.00 (Sat/Sun 06.15), 14.00 (Sat/Sun 13.15)-20.15 (Sat 21.00) (reg. prgrs. only).
7295kHz 41.12m 5kW: 10.00 (Sat/Sun 06.30)-11.00 (Sat/Sun 13.00).
ANN: "This is the General (or National) Sce. of the Voice of Kenya" — **INT-SIG:** Drums — V. by letter. Re. to Chief Eng. Rec. Acc. — **ALF:** £1/0/0.

LESOTHO (Kingdom)

L.T:GMT + 2h — Pr.L: Sesotho, English — E.C:a/c 50 (yes).

RADIO LESOTHO (Gov.)
ADDR: P.O. Box 552, Maseru. **L.P:** Head of Broadc: T. Chaka.
STATIONS: 899kHz 333.7m 2kW — 1196kHz 250.8m 0.66kW.
HOME SCE. in Sesotho, English: 04.00 (Sun 04.30)-06.00, 15.00-19.30. **N. in English:** 05.00 (BBC), 05.09 (Tues-Sat), 15.30, 19.00. **Sesotho:** 04.15 (W), 16.45, 18.45 (W).
ANN: "This is R. Lesotho Broadc. on 899 and 1196kHz".
INT-SIG: Nat. Anthem — V. by letter — **PUB:** Prgr. schedule available on request.

RADIO STATION: 7PA22 (Educ.)
Owned and operated by the Educational Secretary Roman Catholic Schools, Lesotho — **ADDR:** Catholic School Secretariat, P.O. Box 80, Maseru. **Te:** 2525 — **L.P:** St. Mgr: F. Mariot. Dir. Tec: B. Chabot.
STATION: 3824kHz 78.46m 0.1kW.
D.PRGR: Not functioning by time of printing; may resume operation in January 1970.
ANN: "Ici 7PA22, Maseru" — V. by letter. — **ALF:** R 2.00.

LIBERIA (Rep.)

L.T: GMT — ½ h — Pr.L: English, Liberian-Vernaculars.

STATION ELBC LIBERIAN BROADCASTING CORPORATION
ADDR: P.O. Box 594, Monrovia. **Te:** 22641. **Cable:** Broadcasts — **L.P:** Gen. Mgr: G. H. Andrews. Chief Eng: K. Bailey.
STATIONS: (G.C: 10.42W/06.14N): 10kW.
629kHz 476.9m — 3255kHz 92.15m — 6090kHz 49.26m.
HOME SCE: 06.15 (Sun 07.15)-10.45 on 629/3255kHz, 12.45 (Sun 10.45)-19.45 on 629/6090kHz. 19.45-00.45 on 629/3255kHz — **N. in English:** 06.30*, 08.00, 09.15, 10.40, 13.00, 14.45, 16.00, 18.00, 20.10*, 21.45, 23.45 — *) African N — N.

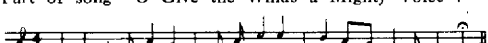
in African dialects: 07.10, 16.10, 18.10 — **ANN:** "This is the Liberian Broadc. Corp., Monrovia" — **V.** by QSL-card — **FI:** by adv — **EC:** a/c 60 (yes).

RADIO STATION ELWA

(Non-Comm. Cultural Missionary Broadc. Sce. of the Sudan Interior Mission.)
ADDR: Box 192, Monrovia. **Cable:** Evangel — **L.P:** Gen. Mgr: Rev. P. Draper. Village Mgr: E. Balzer. Radio Mgr: B. Thompson. Dir. of Prgr's: B. Bliss. Dir. Tec: H. Ries. Dir. Counselling: Rev. D. Miller.
STATIONS (G.C: 10.43W/06.14N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
710	422.0	1	4770	62.89	10	11975	25.05	50
3227	92.96	10	11950	25.10	50	15155	19.80	50

HOME SCE. (for Liberia/We. Africa):
English: W 06.15-08.15 (Sat 09.15), 16.45-18.15, 20.15-23.00 (Sat 23.15) or 710/4770kHz; 18.15-20.15 on 710kHz. Sun 07.45-18.15, 20.00-22.45 on 710/4770kHz; 18.15-20.00 on 710kHz. **N:** 07.00, 07.10, 18.00, 18.10, 19.00, 20.00, 20.10, 20.45, 21.45.
French: 19.00-20.00 on 4770kHz — **Liberian Languages:** W 06.15-08.15, 17.30-22.15 on 3227kHz; Sun 06.15-10.45, 17.30-22.15 on 3227kHz — **West African Languages:** 18.15-19.00 on 4770kHz, Sun 06.45-07.45 on 4770kHz. **Arabic:** 10.45-11.15 on 3227kHz.
FOREIGN SCE:
To Central Africa: W 06.00-07.45 (Sat 08.00) on 11950 kHz, 12.00-13.00 and 16.45-21.00 on 11975kHz; Sun 06.00-11.00 on 11975kHz, 12.00-13.30 and 16.00-21.00 on 11975kHz.
English: W 06.00-07.15, 19.15-21.00; Sun 06.00-08.00, 10.00-11.00, 19.15-21.00. **N:** W 06.00, 07.00, 20.00.
French: 08.00-10.00 (Sun only), 12.00-13.30, 17.00-18.00.
Nigerian Languages: W 16.45-19.15, Sun 16.00-19.15.
Twi: 07.15-07.30. **More:** 07.45-08.00 (Sat) on 11950kHz, 16.00-16.15 on 11975kHz (Sun), 18.30-18.45 (Thurs) on 4770kHz.
To N. Africa (on 15155kHz):
French: 20.00-21.00; **Arabic:** 21.00-22.30.
To Congo (on 15155kHz): **Congo Languages:** 17-15-18.00; **French:** 18.00-19.00.
To Middle East (on 15155kHz): **Arabic:** 19.00-20.00.
ANN: Home and Foreign Sce: English: "This is ELWA broadc. from Monrovia, Liberia". French: "Ici ELWA, Monrovia, Liberia" — **INT-SIG:** Vibraharp recording: Part of song "O Give the Winds a Mighty Voice".



FI: Supported by voluntary gifts from evangelical Christian groups and "share-the-cost" plan.

VOICE OF AMERICA RADIO STATION IN LIBERIA

ADDR: Voice of America, Washington D.C. 20547, USA.
Short Wave: Monrovia (G.C: 10.33W/06.26N): 20/250kW.

kHz	m	kHz	m	kHz	m	kHz	m
3990	75.19	7270	41.27	11880	25.25	17705	16.94
6035	49.17	7280	41.21	11915	25.18	17775	16.88
6045	49.63	9530	31.48	11970	25.06	17830	16.83
6180	48.54	9735	30.82	15310	19.60	21520	13.94
7135	42.05	9750	30.77	15320	19.58	21660	13.85
7175	41.84	11740	25.55	15360	19.53	21670	13.84
7195	41.70	11770	25.49	15445	19.43	21695	13.83

D.PRGR; English: 03.00-07.30, 14.00-23.45 (Sun 24.00). **French:** 06.00-07.30 (Mon-Fri), 18.30-21.00, 22.00-22.30, **Swahili:** 17.00-18.00.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station indentification is in English: "You are listening to the Voice of America from Monrovia".
INT-SIG: Musical Signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs — **V.** by QSL-card. Reports required. No Rp.

LIBYA (Dem. Rep.)

L.T: GMT + 2 h — **Pr.L:** Arabic — **E.C:** a/c 50 (no, exc. for Tripoli).

LIBYAN BROADCASTING AND TV SERVICE

ADDR: P.O. Box 333, Tripoli; P.O. Box 274, Benghazi. **Te:** 32451 (Tripoli), 3311 (Benghazi). **Cable:** Idaalibya.
STATIONS

	kHz	m	kW		kHz	m	kW
Benghazi	674	445.1	100	Benghazi	1594	188.2	5
Tripoli	1052	285.1	50	El Beida	7165	41.87	100
Tripoli	1214	247.1	5	El Beida	9565	31.36	100
Tobruk	1394	215.2	10	Tripoli	11795	25.43	100

G.C: Tripoli (El Beida) 13.15E/32.52N — Benghazi 20.04E/32.07N.
HOME SCE. in Arabic: 04.30-08.00, 12.00-22.15 (Fri 04.30-22.15). **N:** 05.30, 07.55, 12.30, 15.30, 17.00, 18.30, 19.30, 21.00, 22.05.
ANN: "Hunna Al Idaa Alibia Min Tarablus" (from Tripoli) or "Hunna Al Idaa Alibia Min Benghazi" (from Benghazi).
INT-SIG: Prgr's open and close with National Anthem — **V.** by letter. —

BRITISH FORCES BROADC. SCE. TOBRUK

is operated by the Ministry of Defence to provide a sce. of inf, entertainment as well as a link with home for H.M. Forces stationed in Tobruk and El Adem. It is non-comm, does not accept adv.
ADDR: B.F.P.O. 56, Tobruk — **L.P:** Contr: P. K. Holwill, Sen. Eng: P. F. Blanchette, Prgr. Org: J. E. Hedges (from March '70), St. Contr: J. M. Campbell. Prgr. Org: K. L. Emmett. Sen. Eng: P. J. Keable.
STATIONS: 1484kHz 202.2m 1kW — 1439kHz 208m 1kW.
FM: 89MHz/*90.2MHz: 0.075kW; *) El Adem.
D.PRGRS: W 04.00-08.30 (Sat/Sun 06.00-12.00), 15.00-21.00 (Sat 14.15-21.15).
N. (BBC): 04.00, 05.00, 06.00 (Sat), 07.00, 16.00, 18.00, 20.00.
ANN: "This is the British Forces Broadc. Sce, Tobruk". **V.** by QSL-card.

MADEIRA (Portuguese)

L.T: GMT — **Pr.L:** Portuguese — **EC:** a/c 50+d/c.

ESTACAO RADIO DA MADEIRA (Pr.)

ADDR: C.P. 450, Funchal. **Te:** 21883 — **L.P:** Dir: Major M. Portela Ribeiro.
STATION (Pico dos Barcelos): CSB90 1484kHz 202.2m 1kW.
HOME SCE: W 08.00-10.00, 12.00-23.30; Sun 08.00-23.30. Occasionally also in English and French — **ANN:** "Estação Rádio da Madeira no comprimento d'onda de 202m, frequencia de 1484kHz" — **V.** by letter — **ALF:** 100 Escudos.

POSTO EMISSOR DE RADIODIF. DO FUNCHAL (Pr.)

ADDR: Rua Ponte de S. Lázaro 3, Funchal. **Te:** 21797. **L.P:** Dir: Dr. W. Edw. Clode.
STATIONS (Monte): CSB91 1529kHz 196.2m 0.3kW. **FM:** 91.9MHz 0.25kW.
HOME SCE: 1529kHz: W 08.00-10.30, 12.00-18.00, 19.00-24.00; Sun 08.00-24.00 — **FM:** 20.30-23.30.
ANN: "Aqui Funchal, studio do posto emissor de radiodif" — **V.** by letter.

POSTO EMISSOR DE RADIODIF. DO FUNCHAL (Pr.)

ADDR: Rua dos Netos 27, Funchal. **Te:** 27355 — **L.P:** Dir: Ruy Ivo da Silva Vieira Nunes Pereira.
STATION (Terreira da Luta): 1331kHz 225m 1kW.
HOME SCE: W 11.30-14.00, 19.00-23.00; Sun 12.00-23.00 **N:** 13.00 & 20.30 (relay Emissora Nacional) plus 5 min. local news, 22.50 (local + wrp) — **Football:** Sun 14.00-19.00 —
ANN: "Studios na Madeira da Emissora Nacional" — **V.** by letter — **F.PL:** 10kW mw-tr and FM-tr.

MALAGASY REPUBLIC

L.T: GMT+3h — **Pr.L:** Malgache, French — **E.C:** a/c 50 (yes).

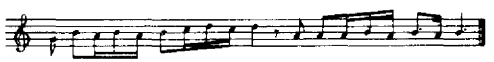
RADIO TELEVISION MALGACHE (Gov, Comm.)

ADDR: B.P. 442, Tananarive. **Cable:** R. Madagascar. **Te:** 223-81.
L.P: Dir: R. Rabesahala. Dir. N: J. Rafidinarivo. Dir. Tec: B. Rakotoarivelo.
STATIONS (G.C: 47.35E/18.50S):

kHz	m	kW	Netw.	kHz	m	kW	Netw.
1186	252.9	1	III	7105	42.22	4	II
1394	215.1	4	I	7155	41.92	4	I
1502	199.7	4	II	7230	41.49	10	III
3232	92.82	30	I	9515	31.53	30	II
3288	91.24	30	II	9690	30.96	30	I
4960	60.48	10	III	17730	16.92	100	IV

HOME SCE: Net. I (Malgache): W 03.00-05.00, 07.30-10.30, 15.00-19.30; Sat 03.00-05.00, 07.30-19.30; Sun 03.00-19.30. ...
N: 03.05, 04.00, 08.15, 09.30, 10.25, 16.15, 18.30.
Net. II (French): W 03.30-05.15, 09.00-11.00, 15.00-19.30; Sat 03.30-05.30, 09.00-21.00; Sun 04.00-19.30.

N: W 03.45, 04.45, 09.45, 10.30, 15.30, 16.30, 19.15; Sun 05.15, 09.45, 16.30, 19.15.
Net. III (Malagasy): W 03.30-05.30, 09.00-11.00, 15.30-18.30; Sat 03.30-05.30, 09.00-18.30; Sun 04.00-06.30, 08.30-11.00, 14.30-18.30.
N: 04.15 (W), 05.00 (Sun), 09.45, 12.00 (Sat), 13.00 (Sat), 15.00 (Sun), 16.00 (W), 17.00.
FOREIGN SERVICE: English and French 13.30-14.30 towards Africa.
ANN: Malgache: "Radio-Madagasikara ity izay renareo avy eto Antananarivo". French: "R. Madagascar émettant depuis Tananarive". Int. Sce: E: "This is Tananarive the International Sce. of R. Madagascar".
INT-SIG: "O . . . . . Raketaka" played on "Valiha" (typical instrument consisting of bamboo the detached fibres of which are used as strings):



V. by QSL-card. Recordings accepted.

RADIO UNIVERSITE (Gov., Educ.)
ADDR: B.P. 909, Tananarive. **Te:** 22218.
STATIONS: 1466kHz 204.6m 1kW.
3370kHz 88.02m 4kW — 6070kHz 49.42m 4kW.
HOME SCE: W 03.15-04.30, 15.30-19.00 on 1466/3370kHz; Sun 12.00-14.00 on 1466/6070kHz, 14.00-19.00 on 1466/3370kHz. (No broadcasts 1/7-15/10, 25/12-3/1 and at Easter time.)
ANN: "Ici R. Madagascar, R. Université émettant de Tananarive" — **V.** by letter.

MALAWI

L.T: GMT + 2 h — **Pr.L:** Chinyanja, Chitumbuka, English **E.C:** a/c 50 (yes).

MALAWI BROADCASTING CORPORATION
(Independent Statutory Body).
ADDR: P.O. Box 453, Blantyre. **Te:** 8461. **Cable:** Radomalawi. — **L.P:** Dir. Gen: J. H. Parry. Secr. & Head of Adm. E. O'Callaghan. Comm. Mgr: E. L. Vnadagriff. Chief Eng: G. K. MacDonald. Prgr. Mgr: A. Cox. Head of N: C. A. H. Kachingwe.
STATIONS (G. C. Blantyre 35.02E/15.42S):

	kHz	m	kW		kHz	m	kW
Fort Johnston	539	556.6	1	Nkhota-kota	908	330.4	1
Lilongwe	593	505.9	1	Bangula	1277	234.9	1
Mzimba*	674	445.1	1	Blantyre	3380	88.76	20
Blantyre	755	397.4	10	—	5995	50.04	10
Karonga	692	435.5	1				

*) = not on air yet.
FM: Zomba 90.36MHz, Blantyre 92.16MHz, Dedza 96.12MHz, Limbe 98.27MHz.
HOME SCE: On all mw + FM: 03.00-21.10 (Sat 23.10); On 3380kHz: 03.00 (Sun 04.00)-06.05, 14.50-21.10 (Sat 23.10). On 5995kHz: 06.20-14.45.
Testing 20kW tr. on 3380kHz by time of printing.
N. in English: 04.00 (W), 05.00, 06.00, 08.00, 10.00 (W), 11.00, 12.00 (W), 14.00 (W), 16.00 (W), 18.00 (W), 20.00, 21.00, 22.00 (Sat), 23.00 (Sat).
N. in Chinyanja: 04.05 (W), 05.05 (Sun), 05.10 (W), 06.10 (Sun), 11.10 (W), 16.30 (W), 18.50 (W).
ANN: E: "This is Radio Malawi". Chinyanja: "Kuno ndi Ku Radio Malawi" — **INT-SIG:** Cock Crow + drums — **V.** by letter. — **PUB:** "Malawi Calling" (monthly) — **F.PL:** A 100kW sw-tr. to operate in 1970.

MALI (Rep. of)

L.T: GMT — **Pr.L:** French, English, Vernaculars — **E.C:** a/c 50 (no).

RADIO MALI (Gov.)
Addr: B.P. 171, Bamako. **Cable:** Radio Mali. **Te:** 2474 — **L.P:** Dir: M. Racine Kane. Dir. Tec: M. Keita.
STATIONS (G.C: 07.58W/12.38N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1268	236.6	4	4835	62.05	18	9745	30.78	50
1430	210.0	60	7285	41.18	18	11750	25.53	50
4783	62.72	18	9635	31.14	18			

HOME SCE: W 06.00-08.00 on 4783/4835kHz, 12.00-14.00 (Sat 17.30) on 7285/9635kHz, 18.00 (Sat 18.30)-23.00 on 4783/4835kHz; Sun 08.00-17.30 on 7285/9635kHz, 18.30-23.00 on 4783/4835kHz.
NB: All prgrs. also on 1268/1430/9745kHz. **N. French:** 07.00 (W), 09.00 (Sun), 12.45, 20.15, 22.45. **English:** 12.25, 19.45.
Reg. Station: Mopti 1268kHz 236.6m 4kW (relay Bamako).
ANN: F: "Ici Bamako, Radiodiff. Nationale de la République du Mali émettant sur . . ." — **INT-SIG:** African Music on local instrument "Cora" — **V.** by QSL-card. Recordings accepted. **Rp. F.PL:** four 50kW sw-tr's.

MAURITANIA (Rep. Islamic)

L.T: GMT — **Pr.L:** French, Arabic, Vernaculars.

RADIODIFFUSION NATIONALE DE MAURITANIE (Gov.)
ADDR: B.P. 200, Nouakchott. **Te:** 2164 — **L.P:** Dir: B. Ould El Bou. Chief Eng: G. Preu d'Homme. Minister of Inf: M. Y. Abdi.
STATIONS: *) to be increased to 20kW in 1970.

kHz	m	kW	kHz	m	kW	kHz	m	kW
1349	222.4	1*	7245	41.41	4	9610	31.33	30
4850	61.87	30						

HOME SCE: W 07.00-08.00 on 1349/4850kHz, 12.00-14.30 on 1349/7245/9610kHz, 18.00-22.30 on 1349/4850 kHz; Sun 08.00-14.00 on 1349/7245/9610kHz, 17.00-23.00 on 1349/4850kHz.
NEWS: French: 07.25 (W), 10.50 (Sun), 13.00 (W), 20.00, 22.12 (W), 22.45 (Sun). **Arabic:** 07.20 (W), 08.55 (Sun), 13.15 (W), 20.30, 22.05 (W), 22.35 (Sun). **Ouolof:** 12.00, 18.00 (W). **Sarakolé:** 12.20, 19.00 (W). **Toucouleur:** 12.40, 18.30 (W).
ANN: "Ici Nouakchott, Radiodiff. de la République Islamique de Mauritanie" — **INT-SIG:** Mauritanian guitar — **V.** by QSL-card. Re. in F, Arabic — **AD:** 2 x 30 seconds at 07.00, 20.00.
ALF: CFA 500,- (US$ 2.00) — **EC:** a/c 50 (yes).

MAURITIUS

L.T: GMT + 4h — **Pr.L:** English, French, Hindustani, Chinese — **EC:** a/c 50 (yes).

MAURITIUS BROADCASTING CORPORATION
ADDR: Broadcasting House, Forest Side. **Te:** Curepipe 507. **Cable:** Broadcasts — **L.P:** Dir. Gen: G. Caughan. Chief Eng: N. Rambert. Head of News Dept: P. McCaw. Prgr. Contr: J. R. Delaitre. Head of Sales: J. Cantin.
STATIONS (G.C. 57.31E/20.19S): 10kW 683kHz 439.2m — 4850kHz 61.86m — 97100kHz 3.90m.
HOME AND DEPENDENCIES: D 02.30-18.30.
683kHz: as above. 4850kHz: 13.00-18.30. 9710kHz: 02.30-13.00.
English/French: W 03.00-10.30, 14.30-18.30 (Sat 19.00); Sun 03.00-09.00, 14.30-18.30. **N: French:** 03.30, 06.00, 08.30, 15.00, 16.00, 17.30, **English:** 04.00, 18.00 — **Wrp:** 03.40, 15.10 (F), 04.10 (E) — **Indian Languages:** W 02.30-03.00, 10.30-14.00. Sun 10.00-14.30 — **N:** 02.45, 14.00 — **Chinese:** Sun 09.00-10.30, Tues-Thurs 09.30 10.30
ANN: E: "This is Mauritius Broadc. Corp". F: "Ici la M.B.C. poste de radiodiff de l'Ile Maurice — **INT-SIG:** Opening tune "Extended Close" by Sam Fonteyn. Before N: "Hour of Triumph" by Roger Roger — **ALF:** 10 Rupees for sets of CIF value less than 100 Rupees; 20 Rupees if CIF value is over 100 Rupees — **V.** by letter. Rec. acc.

ATTENTION
ALL
RADIO STATIONS

To keep the WRTH and its Summer Edition completely up-to-date we appeal to you to SEND US YOUR SCHEDULES REGULARLY. In turn we promise to keep your world-wide listeners informed about changes of your times and frequencies.

World Radio TV Handbook Co. Ltd.

Søliljevej 44, 2650 Hvidovre, Denmark

MOROCCO

L.T: GMT — **Pr.L:** Arabic, French Spanish English, Berber.

RADIODIFFUSION TELEVISION MAROCAINE (Gov.)

ADDR: 1, Rue Al Brihi, Rabat. **Cable:** Radiomaroc. **Telex:** Radiomaroc 31010 — **L.P:** Chief Eng: B. Drissi.

HOME SCE: Prgr. A (National Netw):

	kHz	m	kW		kHz	m	kW
Azilal	209	1435	400	Marrakech I	971	309.0	1
Oujda	593	505.9	100	Safi I	1025	292.7	1
Sebaa-Aioun I	611	491.0	140	Tetuan I	1052	285.2	20
Rabat I	818	366.7	1	Casablanca I	1079	278	1
Agadir	935	320.9	100	Tanger II	1115	269	1

FM: Rabat 92.1MHz 0.35kW, Casablanca 96.0MHz 0.25kW. Sebaa-Aioun 96.8MHz 1kW.

Short Waves: On 7225kHz (Sebaa-Aioun) 10kW: for So. Morocco. On 9165kHz (Tanger) 100kW for Middle East. On 15345kHz (Sebaa-Aioun) 50kW: for We. Africa.

Prgr. B (International Network):

In English, French, Spanish: W 07.00-09.00, 12.00-15.00, 18.00-24.00; Sun 07.30-02.00.

	kHz	m	kW		kHz	m	kW
Sebaa-Aioun II	701	428.0	140	Marrakech II	1151	260.6	1
Oujda II	827	362.8	100	Casablanca II	1151	260.6	1
Tangier III	1016	295.3	1	Safi II	1322	226.9	1
Rabat II	1025	292.7	1				

FM: Rabat 87.9MHz 0.35kW, Casablanca 90.0MHz 0.25kW, Sebaa-Aioun 93.6MHz 1kW.

Short Wave: Sebaa-Aioun 7115kHz 42.16m 10kW (to So Morocco).

French: W 07.00-08.30, 12.00-14.00, 18.00-23.00; Sun 07.30-10.00, 11.00-14.00, 15.00-23.00 — N: 07.45, 13.00, 20.00, 22.45. **Spanish:** 08.30-09.00 (Sun 10.00-11.00), 14.00-15.00, 23.00-24.00 — N: 08.30, 14.15, 23.00.

Prgr. C (Berbère Network):

Berber: 07.00-09.00, 12.00-15.00, 17.00-23.00.

	kHz	m	kW		kHz	m	kW
Tetuan II	917	327.2	5	Rabat III	1295	231.7	1
Sebaa-Aioun III	1043	287.6	25	Casablanca III	1484	202.2	1
Agadir II	1196	250.8	20	Marrakech III	1594	188.2	1

"Voice of Morocco" (Tangier): 1232kHz 243.5m 50kW: 09.30-18.00, 22.00-24.00 — **Arabic:** 09.30-14.00, 22.00-24.00 **Spanish:** 14.00-16.00 — **French:** 16.00-18.00.

FOREIGN SERVICE: French, English, Oulof: 18.30-23.30.

Sebaa-Aioun	6170kHz	48.62m	50kW: To We. Af/Mauritania
Tangier	11735kHz	25.56m	50kW: To We. Af/Mauritania
Tangier	15380kHz	19.51m	50kW: To We. Af/Mauritania
Tangier	15410kHz	19.47m	10kW: To So. Morocco

G.C: Sebaa-Aioun 05.24W/33.55N; Tangier I(15410kHz) 05.40W/35.45N; Tangier II (9615/11735/15380kHz) 05.58W/35.36N.

Reported as follows:
18.00-19.00 English on 11725kHz, 19.00-22.30 French on 9615/11735kHz, 22.30-24.00 Spanish on 11735kHz and on 15360kHz (to Latin America).

ANN: F: "Ici Rabat Radiodiff. Télévision Marocaine". E: "This is the Moroccan Broadc. and Television System Rabat". Sp: "Aqui Radiodiff. Televisión Maroqui". Voice of Morocco: F: "Ici Tanger la voix du Maroc" — V. by QSL-card. Rec. acc. Rp. — **PUB:** Monthly magazine in Arabic — **ALF:** DH 15, -.

VOICE OF AMERICA RADIO STATION IN TANGIER

ADDR: Voice of America, Washington D.C. 20547, USA.
STATIONS (G.C: 05.56w/35.41N): Tangier 35/50/100kW: 02.00-07.45, 12.00-24.00.

kHz	m	kHz	m	kHz	m	kHz	m
5965	50.29	9505	31.56	11710	25.62	15235	19.69
6015	49.88	9530	31.48	11735	25.56	15270	19.65
6020	49.83	9540	31.45	11760	25.51	15310	19.60
6040	49.67	9545	31.43	11790	25.45	17800	16.85
6045	49.63	9615	31.20	11795	25.43	17815	16.84
6125	48.98	9680	30.99	11915	25.18	17855	16.80
6170	48.62	9715	30.88	11960	25.08	21455	13.98
7220	41.55	9740	30.80	15195	19.74	21690	13.83
7270	41.27	9760	30.74	15205	19.73	25880	11.59
7285	41.18						

D.PRGR: See USA.

ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station Identification is in English: "You are listening to the Voice of America from Tangier".
INT-SIG: Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs. V. by QSL-card. Reports required. No Rp.

MOZAMBIQUE (Portuguese)

L.T: GMT+2h — **Pr.L:** Portuguese, English, Afrikaans, Vernaculars.

RADIO CLUBE DE MOCAMBIQUE (Non-prof org.)

ADDR: P.O. Box 594, Lourenço Marques. **Te:** 4045. **Cable:** Radioclube — **L.P:** Pres: A. das Neves Conçalves. Exec. Dir: H. A. da Silva Rodrigues. Gen. Mgr: V. Rodrigues. Chief Portuguese Section: Vacant. Chief English Section: D. Davies.

STATIONS (G.C: 32.22E/25.95S):

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
737	407.1	50	A	4855	61.79	20	B
917	327.0	50	B	4865	61.66	25	
1079	278.0	5	D	4925	60.90	25	A
1160	258.6	1	C	6050	49.59	25	B
1223	245.3	5		6115	49.06	10	A
1223	245.3	0.25	B	6180	48.54	7.5	B
1358	220.9	10	B	7195	41.70	100	
3218	93.22	25	B	9620	31.19	100	B
3265	91.87	25	A	11780	25.47	7.5	B
3338	90.87	10		11820	25.38	25	A
3373	88.94	10	B	11845	25.33	100	
4762	63.00	10	B	15295	19.61	25	A

F.M: 98.01MHz 1kW (Prgr. C.)

"A" PRGR. in Portuguese: 04.00-07.00 on 737/6115/11820kHz, 07.00-15.00 on 737/6115/11820/15295kHz, 15.00-15.30 on 737/6115/11820kHz, 15.30-16.00 on 737/4925/6115/11820kHz, 16.00-16.30 on 737/4925/6115kHz, 16.30-22.00 on 737/3265/4925 kHz.
N: 05.15, 08.30, (W), 10.30, 14.00, 17.30, 20.30, 22.01.
"B" PRGR. in English/Afrikaans: 24 h: 03.00-04.00 on 917/3218 (to 03.45) /4855/11780kHz, 04.00-05.00 on 917/4855/6050/11780kHz, 05.00-07.00 on 4855/6050/11780kHz, 07.00-14.00 on 6050/9620/11780kHz, 14.00-15.00 on 6050/11780kHz, 15.00-18.00 on 917/4855/6050/11780kHz, 18.00-19.00 on 917/3218 (from 18.15) /4855/11780kHz, 19.00-22.00 on 917/3218/4855kHz, 22.00-03.00 on 917/3218kHz; Also on 1358kHz at 05.00-22.00.
Religious Sce: 04.30-05.15 (Sun) on 4762/6180kHz, 19.30-21.00 (Sat/Sun/Mon 20.45) on 3373/4762kHz.
"C". PRGR. in Portuguese: 09.00-21.00 (Sun), 16.30-21.00 (W) on 1160kHz + FM — N (from A-Prgr): 10.30 (Sun), 17.30 — **Religious Sce (Mass):** W 16.00-16.30 on 1160kHz + FM — **"Radio Universidade":** Sat 15.00-16.00, Sun 07.00-09.00 on 1160kHz + FM.
"D" PRGR. in Portuguese: 04.00-06.00, 09.00-12.00, 15.30-20.00 on 1079kHz N. (from A-Prgr): 05.15, 10.30, 17.30.
"A VOZ DE MOZAMBIQUE" in Ronga, Shangane: W 16.00-20.00 on 1223/3373/4865kHz; Sat 10.00-15.30 on 1223/4865kHz, 15.30-20.00 on 1223/3373/4865kHz; Sun 05.00-15.30 on 1223/4865kHz, 15.30-20.00 on 1223/3373/4865kHz. **On 1223/11845kHz** (5/100kW): 04.00-07.00 Xinhangue and Xissena. **On 11845kHz:** 09.30-12.00 (W also on 1223kHz), 15.30-19.30 (in Ajaua, Nyanja, Swahili). Alternate fq: 7195kHz.

ANN: "Aqui Portugal, Moçambique, fala-vos o R.Clube em Lourenço Marques transmite o seu programa . . A, C, D". B. Prgr: 05.00-15.00: "This is the shortwave-sce. of Lourenço Marques Radio, Portugal, Moçambique, broadc. in the . . . . m.b. and on 220m 1358kHz for listeners in the Lourenço Marques area". 15.00-05.00: "This is the mw-sce. of Lourenço Marques Radio, Portugal, Moçambique on 327m 917kHz and 220m 1358kHz broadc. also on sw in the . . . . m.b's".
INT-SIG: Prgrs. A, C, D, "A Voz de Moçambique" and Regionals: Drum Beat/Orchestra "+4 note gong. Pto. Amelia: 4 gong notes repeated 2 mins before the start of each transmission.

THE DANISH SHORT WAVE CLUB INTERNATIONAL, Tavleager 31, DK 2670 Greve Strand, Denmark, publishes "SHORTWAVE NEWS" (intern) and "KORTBØLGENYT" for Scandinavia (excl. July). Membership fee per year: D.Kr. 24.00, $4.00, £1/5/0, 27 IRC; airmail extra $2.25. Payment to K. H. Højlund, Tyge Brahesvej 47, 9000 Aalborg, Denmark.

V. by QSL-card — **PUB:** "Radio Moçambique" (monthly) in Portuguese. Prgr. sheet for B-Prgr. available in English or Afrikaans.
F.Pl: New Reg. st. at Dondo (near Beira) early 1970. 2 × 10kW and 1 × 50 mw-tr's; 2 × 10kW, 1 × 25kW and 1 × 100kW sw-tr's.

REGIONAL STATIONS

Name	kHz	m	Name	kHz	m
Quelimane	935	320.9	Quelimane	4895	61.29
Nampula	**1223	245.2	Nampula	*4946	60.65
Nampula	1322	226.9		4958	60.51
Porto Amélia	1421	211.1	Quelimane	5020	59.76
Quelimane	3210	93.44	Nampula	7130	42.08
	3310	90.63	Quelimane	7145	41.90
Nampula	*3355	89.42	Porto Amélia	7150	41.96
	3366	89.12	Nampula	7255	41.35
Porto Amélia	4875	61.54	Quelimane	7285	41.18

* = 10kW; ** = 5kW; others 0.25kW.

QUELIMANE (Emis. Reg. de Zambezia): Portuguese: 04.30-06.00, 09.30-12.00 (Sat 16.00), (Sun 04.30-16.00) on 935/4895/7145kHz; 16.00-20.00 on 935/3210/4895kHz — **N:** 05.15*, 10.30*, 10.40, 17.30*, 17.40 (* = relay Lourenço Marques). **"A Voz de Mocambique": Chuabo:** 05.00-06.00 (Sun), 10.00-11.00 (Sun) on 5020/7285kHz, 17.00-18.00 (Wed/Sat/Sun 19.00) on 3310/5020kHz.

NAMPULA (Emis. Reg. do Norte): Portuguese: 04.30-06.00, 09.30-12.00 (Sat 16.00), (Sun 04.30-16.00) on 1223/4958/7255 kHz, 16.00-20.30 on 1223/3366/4958kHz.
ALF: Esc. 120, — **E.C.** a/c 50 (yes).

RADIO PAX (Rel. owned by Franciscan Fathers)
ADDR: C.P. 594, Beira. **Te:** 2763. **Cable:** Radio Pax — **L.P:** St. Mgr: Dr. M. Reis Miranda. Dir. Prgr: M. Carreira Neves.
STATIONS (G.C: 34.52E/18.49S).
1295kHz 231.7m 10kW — 7205kHz 41.64m 10kW + FM: 90 & 95kHz (0.05kW).
HOME SCE. in Portuguese & Vernaculars: W 04.00-05.30, 09.30-11.30, 14.00-21.00 (Sat 04.00-05.30, 09.30-22.00); Sun 04.00-21.00. **N:** 04.45, 10.15, 17.30, 20.30.
ANN: "Aqui Beira Moçambique, Provincia de Portugal em Africa transmite a R. Pax, Emissora Católica" — V. by QSL-card or letter.

EMISSORA DO AERO CLUBE DA BEIRA (Priv, Comm.)
ADDR: C.P. 3, Beira. **Te:** 2505. **Cable:** Aero. **LP:** Dir: F. J. Silvério Moiteira.
STATIONS (G.C: 34.52E/18.49S): mw 5kW, sw 0.3kW.
1430kHz 210m — 3240kHz 92.59m — 7240kHz 41.44m.
HOME SCE. in Portuguese: 04.30 (Sun 05.00)-15.00 on 1430/7240kHz, 15.00-17.45 on 1430/3240/7240kHz, 17.45-22.00 on 1430/3240kHz **N:** 05.00 (W), 05.30 (Sun), 10.00, 17.45, 20.30, 21.50.
On Sun 3240kHz carries football matches at 13.00-15.30 (or earlier).
Vernaculars: 15.30-17.45 on 3240kHz. **NB:** 7240kHz is off the air 06.00-09.00 & 12.00-14.00 exc. Sat & Sun
ANN: "Aqui Portugal, Mocambique, fala-vos o Emissora do Acro Clube da Beira" — **INT-SIG:** Rapid Drum Beat/Folklore music and 3 note gong.

RADIO MOCIDADE (Private)
ADDR: P.O. Box 219, Lourenço Marques — **L.P:** St. Mgr: Dr. J. A. Almeida Nogueira. Dir. Tec: C. A. Albuquerque.
STATION: 1456kHz 206.0m 0.3kW.
HOME SCE. in Portuguese: Sun 07.00-10.30, 13.30-17.00, Thurs 18.00-20.00 (times are variable).
ANN: "Aqui Portugal Moçambique; De Lourenco Marques fala R. Mocidade esta é a estacão dos Jovens para os Jovens de Moçambique" — **F.PL:** sw-tr's in 49, 25 m.b. in 1970.

NIGER (Republic)

L.T: GMT + 1 h — **Pr.L:** French, Vernaculars — **EC:** a/c 50 (no).

OFFICE DE RADIODIFFUSION—TELEVISION DU NIGER ORTN (Gov.)
ADDR: B.P. 361, Niamey. **Cable:** ORTN. **Te:** 2272 — **L.P:** Dir: B. Lucas. Dir. Tec: M. Andrieux. Asst. Dir: G. Sidikou.
STATIONS (G.C: 02.06E/12.30N).

kHz	m	kW	Netw/Remarks
1570	191.1	1	I
1525a	196.7	0.1	Relay Netw. I
1594b	188.2	0.1	Relay Netw. II + III
1595	188.1	0.1	IV
1595c	188.1	0.1	Relay Netw. II
3260	92.02	4	I
5020	59.76	4	II
9585	31.30	4	II
11785	25.46	30	II
11875	25.26	4	I + III

a) Tera; b) Zinder; c) N'Guimi.
HOME SCE. Netw. I: W 05.30-06.30 on 1570/3260kHz, 11.30-13.30 on 1570/11875kHz; 17.00 (Sat 15.00)-21.00 (Sat 22.00) on 1570/3260kHz; Sun 07.00-17.00 on 1570/11875kHz; 17.00-21.30 on 1570/3260kHz.
Netw. II: W 05.30-06.30 on 5020kHz; 11.30-13.30 on 9585/11785kHz, 17.00 (Sat 15.00)-21.30 (Sat 22.00) on 5020kHz; Sun 07.00-17.00 on 9585/11785kHz; 17.00-21.30 on 5020kHz.
Netw. III: 06.30-11.30 (W only) on 11875kHz.
N. in French: 06.00 (W), 09.00 (Sun), 12.00, 17.00 (W), 18.45, 21.50 — **English:** Wed, Sat 17.15 — **LL (English):** Mon, Tues, Thurs, Fri 17.15.
Netw. III: W 06.30-11.30 on 11875kHz. **N. in French:** 07.30, 09.30, 10.30.
Netw. IV: W 17.00-22.00 (Sat 23.00) on 1250kHz. **N. in French:** 09.00 (Sun), 12.00 (Sun), 17.00 (W), 18.45, 21.50.
Vernaculars: Netw. I: 12.20, 18.00 (Djerma), 17.45 (Peulh), 12.30 (Tamachek); Netw. II: 12.30, 18.00 (Hausa), 17.30 (Béri-béri); Netw. III: 09.05, 10.35 (Djerma), 09.10, 10.40 (Hausa).
ANN: At opening and close down "La Nigerienne". Local flute and "Ici Niamey, Office de Radiodiff-Télévision du Niger" — **INT-SIG:** Local Flute.

NIGERIA (Republic of)

L.T: GMT+1h — **Pr.L:** English, Yoruba, Hausa, Ibo.

THE NIGERIAN BROADCASTING CORPORATION
(Statutory Corporation)
ADDR: Broadcasting House, Lagos. **Te:** 26411. **Cable:** Broadcast — **L.P:** Dir. Gen: E. V. Badejo. Ag. Dir. Tec: J. S. Sotunde. Dir. External Sce: Vacant. Dir. Prgr: Chris Kolade.

NATIONAL PRGR. (from Lagos):

kHz	m	kW	Times
1088	275.7	20	04.30-23.00
3986	75.27	100	04.30-06.15, 18.00-23.00
4990	60.12	20	04.30-07.30, 07.45-16.30, 17.00-23.00
7255	41.35	10	06.00-18.15

NEWS: English: 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00 (exc. Fri), 13.30 (Fri), 13.00, 14.00, 15.00, 16.00, 17.00 (Sat), 18.00, 19.00, 20.00, 22.00. **Efik, Ijaw:** 15.45 (Mon-Fri), 13.45 (Sat), 16.45 (Sun). **Hausa, Ibo, Yoruba:** 17.00 (exc. Sat), 17.15 (Sat).

WEST STATE PRGR. (Ibadan):

kHz	m	kW	Times
1358	220.9	10	04.30-23.00
1397	214.7	0.25	04.30-23.00
3204	93.65	10	04.30-08.00, 17.00-23.00
7285	41.18	10	08.50-17.00

N: English, Yoruba: W 05.35, 14.30, 19.00. **Fulani, Kanuri, Yoruba, Tiv:** W 16.00.

MID-WEST STATE PRGR. (Benin):

kHz	m	kW	Times
638	470.2	5	16.00-23.00
1397	214.7	0.25	16.00-23.00
4932	60.38	10	04.30-12.30

N: English: 05.00, 06.00, 07.00, 09.00, 10.00, 14.00, 15.00, 16.00, 17.00, 18.00, 20.00. **English/Edo/Urhobo/Mid-West Ibo:** 14.30 (W), 19.00 (W). **Hausa, Ibo, Yoruba:** 17.03 (Sat 15.15).

NORTH STATE PRGR. (Kaduna):

kHz	m	kW	Times
3326	90.20	7.5	04.30-23.00
3396	88.34	0.25	04.30-23.00
6175	48.58	20	04.30-08.00, 16.00-23.00
9655	31.07	10	16.00-23.00

N: Hausa/English: 05.35 (W), 14.00 (W), 19.00 (exc. Sat/Sun). **Obs:** All Reg. st's relay National N. at 06.00, 12.00 (exc. Fri), 12.30 (Fri), 15.00, 18.00, 20.00.

ENUGU (Central Eastern State):

kHz	m	kW	Times
1320	227.3	1	16.00-20.00
6035	49.71	10	05.00-20.00

G.C: Lagos 03.21E/06.34N; Ikorodu (100kW): 03.56E/07.23N; Ibadan 03.54E/07.23N; Enugu 07.27E/06.27N; Kaduna 07.25E/10.21N.

ANN: Nat. Prgr: "This is the National Prgr. of R. Nigeria" or "This is the Commercial Sce. of R. Nigeria" or "This is the N.B.C. Reg. Prgr's: "This is R. Nigeria in . . . . . (name of region Town)".
INT-SIG: National prgr: Talking Drum.

V. by QSL-card. Re. will be welcomed by Chief Engineer.

EXTERNAL SERVICES

STATIONS: Lagos (Ikorodu) 100kW.

kHz	m	kHz	m	kHz	m	kHz	m
7275	41.24	11770	25.49	15365	19.52	21455	13.98

I=West and Central Africa; II=Europe and The Mediterranean; III=East and North Africa/Middle East: IV=East Asia; V=East Africa.

English	Areas	kHz	Beam	French	Areas	kHz	Beam
06.00-07.30	I	7275	nd	19.30-20.30	I	7275	nd
	II	15365	5°		I	11770	nd
	III/				II	15365	5°
	IV	**21455**	**125°**				
15.30-17.00	I	7275	nd				
	II	15365	5°	**Arabic**			
	III	21455	125°	17.00-18.00	I	7275	nd
18.00-19.30	I	7275	nd		III/		
	V	11770	nd		IV	21455	125°
	II	15365	5°				
	III	21455	125°				
French				**Hausa**			
13.30-14.30	I	7275	nd	14.30-15.30	I	7275	nd
	I	11770	nd		I	11770	nd
	III	21455	125°		II	15365	5°

NEWS: English: 06.00, 07.00, 15.30, 16.30, 18.30, 19.25. **French:** 13.30, 19.30. **Hausa:** 14.00. **Arabic:** 17.00.
INT-SIG: Bells opens broadcast at 12.50 followed by Int-Sig. as for Nat. Prgr. accompanied by rapid drum beating. Sign off with Nat. Anthem — **V.** by QSL-card. Re. will be welcomed by Chief Engineer — **PUB:** Monthly: Transmission schedules are distributed free of charge. The Nigerian Radio Times available on subscription basis.

RADIO TELEVISION KADUNA (Comm.)
ADDR: P.O. Box 250, Kaduna, No. Nigeria. **Cable:** Radionorth. **Te:** 2294 — **L.P:** Gen. Mgr: A. Zoru, Chief Eng: G. White.
STATIONS (G.C: 07.33E/10.50N): 593kHz 505.9m 10/250kW — 6090kHz 49.26m 10kW — 9570kHz 31.35m 10kW.
HOME SCE. in English, Hausa: 05.00-14.35 on 593kHz (10kW), 14.45-23.00 on 593kHz (250kW); 05.00-16.00 on 9570kHz, 16.15-23.00 on 6090kHz.
N. English: 05.30, 11.30, 14.00, 17.00, 18.45, 21.30. **Hausa:** 06.00, 12.30, 15.30, 18.30, 21.35 — **ANN:** "This is R. Television Kaduna" — **INT-SIG:** Bauchi Drums — **V.** by letter. Recordings accepted.

WESTERN NIGERIA RADIOVISION SERVICE (Comm.)
ADDR: P.O. Box 1460, Idaban. **Cable:** Radivision. **Te:** 24381 — **L.P:** Man. Dir: J. O. Oyeleye. Ag. Dir. Tec: V. I. Maduka. Contr. of Prgr's: A. Ogunlade. Comm. Mgr: K. Olasope.
STATIONS (G.C: 03.55E/07.23.5N): Abafon*. Others Ibadan.

kHz	m	kW	kHz	m	kW	kHz	m	kW
*602	498.4	10	656	457.3	10	6050	49.59	10

HOME SCE: W 05.00-23.05; Sun 06.00-22.05 on 602/656/6050 kHz — **N. in English:** 05.10 (W), 06.00, 07.00 (BBC), 07.10 (African), 12.00, 17.00, 20.00. Also short N every h at 09.00-23.00 — **N. in Yoruba, Edo, Hausa:** 08.00, 19.00.
ANN: "This is the Western Nigeria Broadc. Sce." or "This is WNBS, Ibadan" — **INT-SIG:** Chimes 2 notes only (G & E) **V.** by QSL-card or letter. Re. to Chief Eng.

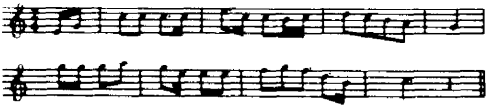
REUNION (French)

L.T: GMT + 4 h — **Pr.L:** French — **E.C:** a/c 50 (yes).

OFFICE DE RADIODIFF—TELEVISION FRANCAISE (ORTF)
ADDR: B.P. 309, St. Denis, La Réunion. **Te:** 868 — **L.P:** Chef des Sces: I. Colonne. Dir. Tec: M. Pontus. Dir. N: J. Vincent Dolor.
STATIONS (G.C: 55.30E/20.55S):

kHz	m	kW	Times
602	498.4	8	02.30-18.45
*665	451.2	4	02.30-18.45
2446	122.76	4	02.30-05.00, 13.00-18.30
3250	92.31	1.5	02.30-18.30
4807	62.41	4	02.30-18.30
7245	41.41	4	05.00-13.00

*) Saint Pierre.
HOME SCE. in French: W 02.30-18.30; Sun 03.00-18.30 — **N:** W 02.30, 03.00, 04.00, 06.00, 08.30, 12.00, 16.00, 18.30; Sun 04.00, 08.30, 16.00, 18.30.
ANN: "Ici La Réunion Office de Radiodiff-Télévision Française" — **V.** by letter. **Rp** — **INT-SIG:** "Madina" (Reunion Folklore) played on guitar — **ALF:** Frcs. 30.



RHODESIA

L.T: GMT+2h — **Pr.L:** English, Shona, Sindebele.

RHODESIA BROADCASTING CORPORATION
(Indep. Statutory Body).
ADDR: P.O. Box 2696, Salisbury. **Cable:** Broadcasts. **Te:** 25685 — **L.P:** Chmn. of Board: J. M. Heliwell. Dir. Gen: J. C. Neill. Dep. Dir. Gen: B. J. Gilbert. Dir. African Sce: B. A. J. Baker. English Sces: J. Baldwin. Chief Eng: J. Grahame, M.I.E.R.E. Head News Sce: H. G. Ward. Mgr. Comm. Sce: M. M. Gaven.
STATIONS: E=English and Comm. Sces; 'A=African and African Comm. Sces; RC=Regional Comm. Sce.
Medium Waves:

	kHz	m	kW	Sc.		kHz	m	kW	Sc.
Salisbury	584	513.7	2	E	Bulawayo	683	439.2	2	E
Gwelo	611	491.0	2	E	Gatooma	791	379.3	1	E
Gwelo	710	422.0	2	A	Umtali	980	306.1	1	E
Ft. Victoria	854	351.3	1	E	Umtali	1241	241.7	1	RC
Salisbury	890	337.1	2	A	Bulawayo	1340	223.9	2	A
Que Que	1367	219.5	1	E	Salisbury	1255	239.0	1	RC

Short Waves:

kHz	m	kW	Sce	kHz	m	kW	Sce
3306	90.73	100	A	5012	59.86	100	E
3396	88.36	100	E	7175	41.81	100	A
4828	62.14	100	A	7285	41.18	100	E

HOME SCE: English Sce: On 5012kHz: 03.55-05.50 (W), 15.45-21.00 (Sat 22.00, Sun 20.05); On 7285kHz: 05.50-15.45.
N. in English: 04.00 (W), 05.00 (W), 06.00 (SABC), 09.00 (Sun), 10.10 (W), 11.00, 14.00 (W), 16.00, 17.45, 19.00 (SABC), 20.00.
African Sce: On 4828kHz: 03.30-05.30 (W), 15.30-20.10 (Sat also 20.10-22.00 relay English Sce); On 7175kHz: 05.30-15.30 (05.30-06.00 relay English Sce).
NB: 3396/3306kHz may replace 5012/4828kHz during seasonal changes of propagation conditions.
N. in English: 04.00 (W), 06.00 (Sun), 11.00, 16.00, 17.45.
Regional Comm. Sce. (R. Jacaranda): Mon-Fri 15.00-21.00; Sat 14.00-22.00; Sun 14.00-20.08. **N:** 15.00, 16.00, 17.00, 17.45, 19.00 (SABC), 20.00.
ANN: E: "This is the Rhodesia Broadc. Corpo".
INT-SIG: 5 mins prior to opening English Sce. peal of Church Bells; 5 mins prior to opening African Sce, Kalimba Xylophone, drums — **V.** by QSL-card — **FI:** By Gov, license payments, adv. — **ALF:** £6 (radio + TV), £2 (radio only) — **EC:** a/c 50 (yes).

RWANDA (Republic of)

L.T: GMT+2h — **Pr.L:** Kinyarwanda, Swahili, French.

RADIODIFFUSION DE LA REPUBLIQUE RWANDAISE (Gov.)
ADDR: B.P. 83, Kigali. **Te:** 5735. **Cable:** Radiorwanda. **L.P:** Dir. Gen: N. Buregeya.
STATION (G.C: 30.04E/01.57S): 6055kHz 49.55m 50kW.
HOME SCE. in Kinyarwanda, Swahili, French: 03.30-06.00, 09.00-12.00 (Sat/Sun 13.30), 13.30-21.00.
N. in French: 04.30, 05.30, 11.15, 18.00, 20.00. **N. in Kinyarwanda:** 04.00, 05.00, 10.45, 16.00, 17.00. **N. in Swahili:** 03.35, 14.45 — **Int. Prgr in French, Swahili, English:** W 09.45-10.45.
ANN: "Ici Kigali, Station Nationale de Radiodiff. de la République Rwandaise" — **INT-SIG:** Inanga (local harp) — **V.** by QSL-card. Rp. Recordings accepted. **PUB:** Prgr. shedule free — **ALF:** 100 Frs Rw (1 US$).

DEUTSCHE WELLE RELAY STATION AFRICA
ADDR: Kigali — **STATIONS** (GC: 30.07E/01.53S): 2 × 250kW tr's.

kHz	m	Times	kHz	m	Times
7225	41.52	03.15-05.30	15380	19.50	20.30-22.45
9565	31.36	03.15-05.30	15410	19.47	10.45-11.45,
9690	30.96	05.45-07.45			12.00-14.00,
9735	30.82	15.15-17.30,			23.00-01.10
		18.00-20.10	15435	19.44	14.15-15.00,
11785	25.46	10.45-11.45			17.45-20.15
11905	25.20	05.45-07.45	17765	16.89	12.00-14.00
11965	25.07	14.15-15.00,	17800	16.85	23.00-01.10
		15.15-17.30,			
		20.30-22.45			

For prgr. details see Deutsche Welle, Germany.

SAHARA (Spanish)

L.T: GMT — **Pr.L:** Spanish, Vernaculars, Hassania.

RADIO SAHARA (Gov.)
ADDR: Apartado 7, Aaiun — **L.P:** Dir: J. Sahonero Diaz. Dir. Prgrs & Adm: S. Valdueza Ayala.
STATION: EAJ203 645kHz 465.1m 50kW (varying).
HOME SCE: 09.00-13.00, 20.00-24.00. **Spanish:** 10.00-13.00, 21.00-24.00 **N.** (RNE): 11.00, 12.00, 21.00. **Hasania:** 09.00-10.00, 20.00-21.00 — **ANN:** "Habla R. Sahara, Emisora EAJ203" — **V.** by QSL-card and letter. Recordings accepted.

RADIO VILLA CISNEROS (Gov.)
ADDR: Apt. 60, Villa Cisneros. **L.P:** Dir: E. Ponce Ramos.
STATION: EAJ202 998kHz 300.6m 10kW.
HOME SCE: 19.00-22.00 **N.** (relay RNE): 19.00-21.00 — **Wrp:** 19.04 — **Educ. Prgr:** 19.05.
ANN: "Transmite R. Villa Cisneros EAJ202 diez kW" — **V.** by letter.

SAO TOME E PRINCIPE (Port. W. Africa)

L.T: GMT — **Pr.L:** Portuguese.

RADIO CLUBE DE SAO TOME (Comm.)
ADDR: Av. Infante D. Henrique, C.P. 44, Sao Tomé. **Te:** 530.
STATIONS: 760kHz 394.7m 5kW — 4807kHz 62.41m 1kW.
HOME SCE: W 06.00-07.30, 12.00-14.00, 17.00-21.00, 21.00-22.30 (Sun 08.00-22.30) on 760/4807kHz.
N: 06.30, 12.30 — **ANN:** "Aqui Portugal, Provincia de S. Tomé e Principe fala-vos o R. Clube de S. Tomé transmitindo na . . ." — **V.** by QSL-card. **Rp** — **ALF:** 100 Escudos.

SENEGAL (Republic)

L.T: GMT — **Pr.L:** French, Oulof, Sérére, Toucouleur, Portuguese — **E.C:** a/c 50 (no).

RADIODIFFUSION DU SENEGAL (Gov.)
ADDR: B.P. 1765, Dakar. **Te:** 32072. **Cable:** Radio Sénégal. **L.P:** Dir. Gen: A. Fall. Dir. Tec: M. M'Baye.
STATIONS (G.C: 17.26W/14.39N):

kHz	m	kW	Netw	Times
764	392.7	200	II	06.00-24.00
1538	195.1	10	I	06.00-24.00
4890	61.35	25	II	06.00-10.00, 18.00-24.00
7170	41.84	25	II	10.00-18.00
7210	41.61	4	I	10.00-18.00
7210	41.61	100	I	06.00-10.00
11895	25.22	100	I	10.00-24.00

R. SENEGAL-INTER. Portuguese: 18.00-18.20; **Arabic:** 18.20-18.40; **English:** 18.40-19.00.
R. SENEGAL II: *times as above.*
N. in French (R. Sénégal I + II): W 07.00, 07.55, 12.00, 13.00, 13.55, 19.00, 20.00, 22.15, 23.55; Sun 08.30, 13.00, 19.00, 20.00, 22.15, 23.55.
Reg. st's: St-Louis (Sénégal III) 1484kHz 202.2m 1kW: W 06.00-08.00, 12.00-14.00, 18.15-22.30.
Ziguinchor (Sénégal IV) (G.C: 16.16W/12.36N): 3336kHz 88.89m 4kW — 6180kHz 48.54m 4kW: 12.00-14.00, 18.00-21.30 on 3336kHz; Sat/Sun 17.30-21.30 on 3336/6180kHz.
Kaolack (Sénégal V) on 1286kHz 233m: 06.00-08.00, 12.00-14.00, 18.00-22.30.
Tambacounda (Sénégal VI) (G.C: 13.41W/13.47N): 1502kHz 199.7m 1kW: 06.00-08.00, 12.00-14.00, 18.00-22.30.
ANN. F: "Ici Sénégal-Inter émettant de Dakar sur . . ." — "Ici Sénégal II, Chaine Nationale, émettant de Dakar". **E:** "This is the English prgr. of the international Sce. of the Sénégalese Broadc. System" — **INT-SIG:** Melody on "Khora' (local harp — **V.** by QSL-card. **Rp.**

SEYCHELLES (British)

L.T: GMT + 4 h — **Pr.L:** English, French, Creole.

RADIO SEYCHELLES
ADDR: Dept. of Inf. & Broadc. P.O. Box 92, Victoria. **Te:** 447 — **L.P:** Mgr: E.C. Passmore C.B.E., A.M.I.E.E.
STATION: ZCQ3 1331kHz 1kW.
HOME SCE: 07.30-08.45 (W), 14.00-17.00.
N. English (local): W 14.15, Sat 16.15; BBC 16.00.
Creole: W 16.15 (Sat after local N in English) — **ANN. E:** "This is R. Seychelles" — **PUB:** Prgr. schedule free.

FAR EASTERN BROADC. COMPANY, Mahe
Test transmission with a 3kW sw-tr's to start in the near future: On 15165kHz (35°): 00.30-03.30, 13.00-16.30 — On 17755kHz (35°): 13.00-16.30 — On 21460kHz (345°): 17.00-20.00.

SIERRA LEONE

L.T: GMT — **Pr.L:** English, Mende, Temne, Krio, Limba.

RADIO SIERRA LEONE (Gov.)
ADDR: New England, Freetown. **Te:** 4711. **Cable:** Broadcast. **L.P:** Dir. Gen: J. B. Millar, O.B.E.
STATIONS (G.C: 13.14W/08.30N): 1205kHz 249.0m 10kW 3316kHz 90.46m 5/10kW — 5980kHz 50.17m 0.5kW.
HOME SCE: Mon-Fri 06.00-10.15, 12.45-13.30, 15.45-23.00; Sat 06.00-10.00, 12.00-23.30; Sun 06.00-23.00.
N. in English: 07.00(BBC), 13.00(BBC), 16.00(VOA), 17.00(Moscow). **Nat N:** 06.35*, 18.00, 19.00, 20.00**, 22.00** — (*) Vernaculars and English; **) English — **African Magazine:** Fri 21.00.
ANN: "This is R. Sierra Leone" — **INT-SIG:** "The rain is coming" played by Military band — **V.** by letter.
ALF: Le 3.00 — **EC:** a/c 50 (no).

SOMALI (Rep.)

L.T: GMT + 3 h — **Pr.L:** Somali, Arabic, Italian, Swahili, English — **E.C:** a/c 50 (no).

NATIONAL BROADCASTING STATION (Gov.)
ADDR: Ministry of Information, Mogadiscio. **Te:** 444. **L.P:** Head of National Radio: M. Hassan Kanin.
STATIONS (G.C: 45.06E/02.06N):
6095kHz 49.22m 50kW — 9588kHz 21.29m 50kW.
HOME SCE. in Somali: 03.30-04.30, 10.00-10.45 (Fri & Public Holidays 04.00-06.00 & 09.00-10.45), 13.30-15.00, 16.00-17.30, 18.00-19.00.
EXTERNAL SCE'S: 04.30-05.00 Arabic, 10.45-11.15 Italian, 11.15-11.45 Amharic, 15.00-15.30 Swahili, 15.30-15.45 Qoti 15.45-16.00 Afar, 17.30-18.00 **English.**
ANN: "Halkan wa Mogadiscio, the Voice of the Somali Republic", I: "Qui parla R. Mogadiscio, la voce della Repubblica Somala" — **INT-SIG:** Guitar — **V.** by QSL-card.

RADIO SOMALI (Gov.)
ADDR: P.O. Box 14, Hargeisa. **Te:** 155. **Cable:** Information. **L.P:** St. Dir: A. Farah Kahin. Dir. of Broadc: H. Abdi Dualeh.
STATIONS (G.C: 44.03E/09.33N):
7120kHz 42.13m 10kW — 11660kHz 25.73m 5kW.
HOME SCE. in Somali: 09.30-10.30 (Fri only), 11.00-13.30, 15.00-17.40. **N. in Somali:** 12.00, 15.30 — **ANN:** "Halkani Wa R. Hargeisa, Odki Gamhoriyada Somalida" — **INT-SIG:** March — **V.** by QSL-card.

SOUTH AFRICA (Republic)

L.T: GMT + 2h — **Pr.L:** English, Afrikaans, Bantu (S. Sotho, Zulu, Tswana, Xhosa, N. Sotho, Venda, Tsonga) — **E.C:** a/c 50 (yes) + d.c.

SOUTH AFRICAN BROADCASTING CORPORATION
ADDR: P.O. Box 8606, Johannesburg. **Cable:** Broadcast. **Te:** 282350. **L.P:** Chmn of the Board of Governors: Dr. P. J. Meyer. Dir. Management: J. N. Swanepoel. Dir. Prgr's: C. D. Fuchs. Chief Eng: H. O. Collett. Asst. Dir. Gen. Sces: P. J. Bothma. Asst. Dir. Bantu & External Sces: S. M. de Villiers. Asst. Dir. Springbok Radio & Special FM Sces: H. J. Howell. Asst. Dir. Adm: G. A. de Bruyn. Asst. Dir. Personnel: G. J. Yssel. Asst. Dir. News: J. E. van Zyl. Asst. Dir. English & Afrikaans Sces: Dr J. H. T. Schutte.. Chief Architect: L. Durston. Chief Accountant: F. R. Nixon. Head Music: A. C. Hartman. Head External Sces: J. A. Jooste. Head Public Rel: N. J. Naudé. Head Stores Supplies: R. B. Wilkins. Asst. Chief Eng. Tr's: F. F. Velleman. Asst.

Chief Eng. Studios: D. H. Mills. Head, English Sce: A. H. Falkiner. Head, Afrikaans Sce: P. F. M. de Bruyn. Head, Nguni Sces: B. J. Steyn. Head, Sotho Sces: T. van Heerden. Head, Costing, Audit & Data Processing: E. von H. E. Mischke. Head, Advertising Sces: J. G. C. Siebert. Head, News Sec: T. Greyling.

HOME SERVICES: National Medium Waves: 0.25/2/5/10kW

	kW	English kHz	Afrikaans kHz	Comm. kHz
Johannesburg				
West Rand	2	638	719	575
East Rand	5	1034	827	1286
Pretoria	2	1439	1097	1268
Bloemfontein	5	674	593	782
Kimberley	0.25	1070	1241	962
Grahamstown	2	620	701	809
Port Elizabeth	5	1313	1043	1178
East London	2	683	791	602
Cape Town	5	656	557	728
Durban	2	566	692	800
Pietermaritzburg	2	764	665	845
Pietersburg	5	1115	863	989

FM-SERVICES:

	kW	English MHz	Afrikaans MHz	Springbok MHz	Reg. Comm. MHz
Johannesburg	10	95.51	103.42	99.47	87.60a
Welverdiend	3	93.71	89.75	97.66	107.9a
Rustenburg	3	102.99	106.95	95.08	—
Pretoria	5*	88.98	96.89	92.93	90.01a
Durban/ Pietermaritzburg	10	90.01	105.83	93.96	101.9c
Constantiaberg	3	89.49	105.32	97.40	101.36b
Table Mountain	0.25	106.69	102.74	90.87	98.78b
Port Shepstone	3	102.65	90.78	98.69	94.74c
Cala	0.8**	95.86	103.77	99.81	—
Umtata	0.8**	97.66	93.71	89.75	—
Port Elizabeth	3	103.51	99.55	87.69	95.60b
Grahamstown	3	93.45	101.36	89.49	97.41b
Keiskammahoek	3	100.59	92.67	104.54	96.63b
East London	3	107.12	95.25	91.30	99.21b
Bloemfontein	3	103.94	88.12	96.03	107.90a
Theunissen	3	103.17	99.21	107.12	95.25a
Napier	3	99.21	95.25	103.17	107.12b
Butterworth	3	102.39	98.44	106.35	—
Kroonstad	3	90.52	94.48	102.39	98.44a
Greytown	3	107.21	103.25	91.38	99.30c
Kimberley	3	106.09	102.13	98.18	94.23a
Piketberg	3	99.81	95.86	107.72	91.90b
Piet Retief	3	89.84	93.79	101.70	—
Vryheid	3	102.48	98.52	94.57	—
Villiersdorp	3	94.48	102.39	90.52	98.44b
Queenstown	3	94.05	90.09	101.96	—
Middelburg (Tvl)	3	90.78	106.61	94.74	—
Eshowe	3	105.06	101.10	89.23	97.15c
Boesmanskop	3	104.37	92.50	88.55	—
Ladybrand	3	89.92	101.79	105.75	—
The Brook	3	95.17	91.21	99.12	—
Davel	3	93.36	89.41	97.32	—
Mooi River	3	105.40	97.49	89.58	101.45c
Senekal	3	101.02	97.06	93.10	—
Riversdale	3	104.20	96.29	92.33	—
Volksrust	3	95.94	91.99	99.90	—
Bedford	3	102.74	98.78	94.82	—
Mount Ayliff	3	92.93	88.98	96.89	—
Nelspruit	3	90.44	102.31	94.39	—
Potgietersrust	3	103.25	95.34	107.21	—
Zeerust	3	89.32	105.14	93.28	—
George	3	102.05	106.01	90.18	—
Sea Point	0.05	101.97	98.01	105.92	94.05
Beaufort West	3	104.46	92.59	100.50	—
Aliwal North	3	89.32	101.19	93.28	—
Dullstroom	3	88.63	104.46	92.59	—
Bethlehem	3	94.91	98.87	106.78	—
Paarl	0.25	104.56	100.59	88.72	96.63b
Fort Mistake	3	100.67	104.63	96.72	—
Durban North	0.25	87.86	107.64	91.81	99.73c
Matjiesfontein	3	101.62	93.71	105.57	—
Cradock	3	96.20	92.24	88.29	—
Noupoort	3	93.62	105.49	97.58	—
Simonstown	0.02	92.07	96.03	103.94	99.99
Kareedouw	3	105.66	101.71	89.84	93.80b
Graaf-Reinet	3	98.35	94.40	102.31	—
Louis Trichardt	3	96.37	88.46	100.33	—
De Aar	3	91.04	106.87	95.00	—
Springfontein	3	88.89	100.76	92.85	—
Houtbosdorp	3	89.24	97.15	105.06	—
Hartbeesfontein	3	91.90	87.95	95.86	99.82a
Windhoek	—	98.78	94.82	102.74	—
Christiana	3	89.50	97.41	105.32	93.45a
Hoedspruit	3	107.64	99.73	87.86	—

* = Reg. Comm. Sce. 0.8kW — ** = Springbok R. 3kW.

English Sce: W 04.30-21.15 (Sat 22.05); Sun 05.00-21.15. N: 05.00 (W), 06.00, 09.00 (W), 11.15, 14.00 (W), 16.00, 17.00 (W), 19.00, 21.00 — **Reg.N:** 11.25 (W), 17.10 (W). **Greek:** Sun 08.00-08.20. **Portuguese:** Sun 08.20-08.40. **Indian Prgr** (in English): Sat 11.45-12.00, Sun 06.30-07.30 on 566/764kHz. **N. in German:** 17.10 (W) on 6095kHz (or 3997kHz) & 98.78MHz (Windhoek). **Afrikaans Sce:** W 04.30-21.15 (Sat 22.05); Sun 05.00-21.15. N: 04.45 (W), 06.00, 09.00 (W), 11.15, 14.00 (W), 16.00, 17.00 (W), 19.00, 21.00 — **Reg.N:** 11.25 (W), 17.10 (W). **German:** Mon 20.40-21.00. **Italian:** Mon 20.20-20.40.

Springbok Radio (Nat, Comm Sce) in English & Afrikaans: 03.00 (Sun 04.00)-22.00.

* = Actual close down at 21.15 (Sat 22.05) for English & Afrikaans Sce's; Springbok Radio closes at 22.00.

N. English: 04.30 (W), 05.00 (Sun), 05.30 (W), 09.29 (W), 11.00, 14.29 (W), 17.00 (W), 20.30 (W). **Afrikaans:** 03.45 (W), 06.30 (Sun), 19.30 (Sun).

Reg. Comm. Sce's in English & Afrikaans: 03.00 (Sun 04.00)-22.00.

N. English: 05.30, 07.30, 09.30, 11.30, 15.30, 17.30, 19.30, 21.30. **Afrikaans:** 04.30, 06.30, 08.30, 10.30, 12.30, 14.30, 16.30, 18.30, 20.30.

All Night Sce. in English & Afrikaans on all Nat. Comm. Sce. freq's + shortwave 4945/3997kHz — N: Afrikaans 22.30; English 02.45.

Special tr's: Market Reports and meat prices: W 16.05-16.50 on 4810/7150kHz. (Afrikaans: Mon/Wed/Fri; English: Tues/Thurs/Sat.

ANN: "This is the English Sce. of R. South Africa". Afrikaans: "Dit is die Afrikaans Diens R. Suid-Afrika". Springbok R:E: "This is the National Netw. of Springbok R, your st. for brighter broadc".

INT-SIG: English Sce: Dove-Call. Afrikaans Sce: Musical Box "Ver in die Wereld Kittie" at 04.28 (on sw) followed by Dove-Call. Springbok R. opens and closes with an orchestral arrangement of the folk tune "Vat you goed en trek Ferreira".

National Shortwave Stations (G.C: 26.13E/29.13S): Paradys (Marconi): 20kW — H. F. Verwoerd Station: 4 × 100kW (Telefunken); 3 × 100kW (CFTH).

A = Afrikaans; E = English; S = Springbok Radio.

kHz	m	Sce	kHz	m	Sce	kHz	m	Sce
2326	129.0	E	4945	60.67	E	9650	31.09	A
2346	127.7	A	4965	60.42	E	9680	30.99	E
2376	126.3	S	6005	49.96	A	9720	30.86	S
3250	92.31	S	6075	49.38	M	*11735	25.56	A
3285	91.32	E	6095	49.22	E	11760	25.51	A
3320	90.34	A	6150	48.78	S	*11810	25.40	A
3330	90.09	M	*7130	42.08	E	11840	25.34	E
3952	75.90	A	7160	41.90	E	11860	25.30	S
3965	76.66	E	*7165	41.87	E	*11885	25.24	E
3997	75.05	S	7185	41.75	A	*15365	19.52	A
4810	62.37	M	7230	41.49	E	*15395	19.49	E
4875	61.54	A	*7260	41.32	A/S	* 100kW.		

Wave bands in use and times of operation on various freq's are changed to suit propagation conditions.

International Shortwave Schedule

2/11/69 — 28/2/70

Times	English	Afrikaans	Commercial
04.30-05.45	3965,4965	3952,4875	3997,4945
05.45-06.15	9680,4965	9650,4875	9720,4945
06.15-15.30	9680,7160	9650,7185	9720,7270
15.30-16.15	9680,4965	9650,4875	9720,4945
16.15-21.30	3965,4965	3952,4875	3997,4945

1/3/70 — 2/5/70

04.30-05.45	3285,3965	3320,3952	3250,3997
05.45-06.15	7160,3965	7185,3952	7270,3997
06.15-15.30	7160,9680	7185,9650	7270,9720
15.30-16.15	7160,3965	7185,3952	7270,3997
16.15-21.30	3285,3965	3320,3952	3250,3997

South West Africa Service

2/11/69 — 28/2/70

Times	English	Afrikaans
04.30-07.30	7130	7260
07.30-15.30	11885	11810
15.30-21.30	7130	7260

1/3/70 — 2/5/70

04.30-07.30	7130	7260	7230
07.30-15.30	11885	11810	11860
15.30-21.30	7130	7260	7230

RADIO BANTU (FM Sce. in Vernaculars):

So. Sotho	kW	MHz		kW	MHz
Johannesburg	10	91.56	Boesmanskop	3	100.41
Welverdiend	3	101.62	Ladybrand	3	93.88
Bloemfontein	10	92.07	Senekal	3	89.15
Theunissen	3	91.30	Rustenberg	3	*99.04
Kroonstad	3	106.35	Pretoria	3	*100.84

South Africa

So. Sotho	kW	MHz
Aliwal North	3	105.14
Bethlehem	3	102.82
Springfontein	3	96.81
Tswana		
Welverdiend	3	105.57
Rustenburg	3	99.04
Pretoria	5	100.84
Bloemfontein	10	99.98
Kimberley	3	90.27
Zeerust	3	97.23
Hartbeesfontein	3	103.77
Christiana	3	101.36
No. Sotho		
Pretoria	5	104.80
Middelburg(Tvl)	3	98.69
Potgietersrust	3	99.30
Dullstroom	3	96.55
Hoedspruit	3	91.82
Louis Trichardt	3	92.42
Houtbosdorp	3	101.11
Zulu		
Durban/Pieter-maritzburg	10	97.92
Johannesburg	10	107.38
Port Shepstone	3	106.61
Greytown	3	95.34
Piet Retief	3	105.66
Vryheid	3	90.61
Middelburg(Tvl)	3	102.65
Eshowe	3	93.19
The Brook	3	103.08
Davel	3	105.23

Zulu	kW	MHz
Mooi River	3	93.53
Volksrust	3	88.03
Nelspruit	3	98.35
Fort Mistake	3	88.80
Durban North	0.25	95.77
Dullstroom	3	100.50
Xhosa		
Constantiaberg	3	93.45
Table Mt.	0.25	94.82
Pt. Shepstone	3	94.74
Cala	3	91.90
Umtata	3	105.57
Pt. Elizabeth	3	91.64
Grahamstown	3	105.32
Keiskammahoek	3	88.72
East London	3	103.17
Butterworth	3	90.52
Queenstown	3	105.92
Bedford	3	90.87
Mt. Ayliff	3	100.84
Aliwal North	3	97.23
Cradock	3	104.11
Rocklands	0.05	90.09
Nouport	3	101.53
Paarl	0.25	92.67
Graaf Reinet	3	106.26
Springfontein	3	104.72
Tsonga/Venda		
Louis Trichardt	3	104.29
Hoedspruit	3	95.77
Houtbosdorp	3	93.19

So. Sotho/Zulu/Xhosa: W 03.00-21.00; Sun 04.00-20.30. **Tswana/No. Sotho/Tsonga/Venda:** 03.00 (Sun 04.00)-08.40, 11.30-11.40, 15.00-21.00 (Sun 20.30).
Special prgr. to Lesotho: Sat 03.00-03.35 (in So. Sotho Service only). **R. Bantu** is also broadcast at 03.00-04.30 (Sun 04.00-05.00) and 07.30-08.00 over following mw-tr's: 1034 (Zulu), 566 (Zulu), 683 (Xhosa), 1115 (Tsonga/Venda), 1313 (Xhosa), 656 (Xhosa), 827 (No. Sotho), 593 (So. Sotho), 863kHz (No. Sotho).
NEWS (in all languages): 03.15 (W), 04.00 (W), 04.30 (Sun), 07.30, 08.35, 11.30, 15.02, 17.30, 19.15, 20.30 (W).

EXTERNAL SERVICES

RADIO RSA — "THE VOICE OF SOUTH AFRICA"
Stations: H. F. Verwoerd Station: 4 x 250kW tr's (Brown Boveri) — (G.C: 28.08E/26.35S).

kHz	m	kHz	m	kHz	m	kHz	m
3965	76.66	7270	41.27	15175	19.76	17825	16.82
3997	75.05	9525	31.50	15220	19.71	21480	13.96
4895	61.29	9530	31.48	15245	19.68	21500	13.95
5980	50.17	9705	30.91	15350	19.54	21535	13.93
5990	50.08	9715	30.88	15360	19.53	21545	13.92
6075	49.38	11785	25.46	17795	16.86	25790	11.63
6135	48.89	11875	25.25	17805	16.85	25820	11.61
7185	41.75	11900	25.21	17815	16.83		

2/11/69-28/2/70

Times	Areas	kHz	Beam	Language
03.56-04.12*	I/III	15220,11900 9525,7270	7.5°	Zulu/Swhaili
04.13-04.27*	I	15220,11900 9525,7270	7.5°	English
04.28-04.42*	II	17805,11900 9525,15220	7.5°	English
04.43-04.57*	I	17805,15220 11900,9525	7.5°	Afrikaans
04.58-05.12*	III	17805,15220 11900,9525	7.5°	English
05.13-05.27*	IV	21535,15220 11900,17805	7.5°	English
05.28-05.42*	V	21535,17805 15220,11900	342.5°	French
05.43-05.57*	VI	17805,15220 11900,9525	32.5°	Portuguese
05.58-06.12*	III	17805,15220 11900,9525	7.5°	Afrikaans
06.13-06.27*	XVIII	21535,17805 15220,11900	7.5°	Portuguese
06.28-06.42*	VII	21535,17805 15220,11900	7.5°	French
06.43-06.57*	IX	21535,17805 15220,11900	342.5°	English
06.56-09.50**	I/III	21535,11900	7.5°	Afrikaans
07.56-08.50*	XIX	21545,17815	154°	English
09.26-09.46*	XXI	25790,21535 17825	7.5°	Afrikaans
09.56-10.50	XX	21545,17815 15220	125°	English
10.56-14.50	X	25790,21535 15220,11900	7.5°	English/ Afrikaans
14.56-15.50	I/III	21535,17805 15220,11900	7.5°	Zulu/Swahili
15.56-16.50	III	15220,11875	7.5°	English
15.56-16.50	VI	11900,9570	32.5°	Portuguese
16.56-17.50	IV/I	21535,17795	7.5°	English
16.56-17.50	III	11900,9525	7.5°	Chichewa
17.56-18.50	XII	21480,11875	342.5°	English
17.56-18.50	XII	21535,15175	342.5°	German
18.56-19.00	XII/V	21480,17795 15350,11875	342.5°	French
19.56-20.50	XII	15175,11875	342,5°	Dutch
19.56-20.50	XVIII	15360,11900	7.5°	Portuguese
20.56-21.50	XII	15175,11875	342.5°	Portuguese
20.56-21.50	IX	15360,11900	342.5°	English
23.26-00.20	XIII	15220,11875 9715,9705	315°	English
00.26-01.20	XIV	15220,11875 9715,9705	315°	English
01.26-02.20	XV	15220,11875 9715,9705	315°	English
02.26-03.20	XVI	15220,11875 9715,9705 1/3/70-2/5/70	315°	English
03.56-04.12*	I/III	11900,9525 7270,5980	7.5°	Zulu/Swahili
04.13-04.27*	I	11900,9525 7270,5980	7.5°	English
04.28-04.42*	II	17805,15220 11900,9525	7.5°	English
04.43-04.57*	I	17805,15220 11900,9525	7.5°	Afrikaans
04.58-05.12*	III	11900,9525 7270,15220	7.5°	English
05.13-05.27*	IV	17805,15220 11900,9525	7.5°	English
05.28-05.42*	V	17805,15220 11900,9525	342.5°	French
05.43-05.57*	VI	11900,15220 9525,7270	32.5°	Portuguese
05.58-06.12*	III	11900,15220 9525,7270	7.5°	Afrikaans
06.13-06.27*	XVIII	17805,15220 11900,9525	7.5°	Portuguese
06.28-06.42*	VII	21535,17805 15220,11900	7.5°	French
06.43-06.57*	IX	21535,15220 17805,11900	342.5°	English
06.56-09.50**	I/III	21535,11900	7.5°	Afrikaans
07.56-08.50*	XIX	21545,17815	154°	English
09.26-09.46*	XXI	25790,21535 17825	7.5°	Afrikaans
09.56-10.50	XX	21545,17815 15220	125°	English
10.56-14.50	X	25790,21535 15220,11900	7.5°	English/ Afrikaans
14.56-15.50	I/III	21535,17805 15220,11900	7.5°	Zulu/Swahili
15.56-16.50	III	15220,11875	7.5°	English
15.56-16.50	VI	11900,9570	32.5°	Portuguese
16.56-17.50	IV/I	21535,17795	7.5°	English
16.56-17.50	III	11900,9525	7.5°	Chichewa
17.56-18.50	XII	21480,11875	342.5°	English
17.56-18.50	XII	21535,15175	342.5°	German
18.56-19.50	XII/V	21480,17795 15350,11875	342.5°	French
19.56-20.50	XII	15175,11875	342.5°	Dutch
19.56-20.50	XVIII	15360,11900	7.5°	Portuguese
20.56-21.50	XII	15175,11875	342.5°	Portuguese
20.56-21.50	IX	15360,11900	342.5°	English
23.26-00.20	XIII	11875,9705 5980	315°	English
00.26-01.20	XIV	11875,9705 5980	315°	English

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RADIO RSA

THE VOICE OF SOUTH AFRICA

Cloran, Heeger 401

Times	Areas	kHz	Beam	Language
01.26-02.20	XV	11875,9705 5980	315°	English
02.26-03.20	XVI	11875,9705 5980	315°	English

* = W only; ** = Sun only.
NEWS: English: 04.15 (W), 04.30 (W), 05.00 (W), 05.15 (W), 06.45 (W), 08.00, 08.46, 10.00, 10.46, 11.15, 16.00, 16.46, 17.00, 17.46, 18.00, 18.46, 21.00, 21.46, 23.30, 00.16, 00.30, 01.16, 01.30, 02.16, 02.30, 03.16.
French: 05.30 (W), 06.30 (W), 19.00, 19.46. **German:** 18.00, 18.46. **Dutch:** 20.00, 20.46. **Portuguese:** 05.45 (W), 06.15 (W), 16.00, 16.46, 20.00, 20.46, 21.00, 21.46.
ANN: "This is Radio RSA, the Voice of South Africa calling from Johannesburg" (also in each language of transmission).
INT-SIG: Call of the Bokmakirie accompanied by first bars of "Ver in die Wereld Kittie" on guitar — V. by QSL-card — **F.PL:** 100kW sw-tr. to beam also Springbok Radio to South West Africa by the end of 1969.

SUDAN

L.T: GMT + 2 h — **Pr.L:** Arabic — **E.C:** a/c 50 (yes).

SUDAN BROACASTING SERVICE (Gov.)
ADDR: P.O. Box 572, Omdurman. **Cable:** Izaa. **L.P:** Acting Dir: M. El Obeid.
STATIONS (G.C: 32.28E/15.30N):

kHz	m	kW	
764	392.7	50/100	
961	312.0	100	
*4994	60.08	20	
7200	41.67	7.5	
9508	31.55	50	(reported with 20kW)
11835	25.35	50	(reported with 100kW)
**15720	19.08	50	

*) reported on 4995kHz — **) reported on 15789kHz.
HOME SCE. Arabic Prgr: 04.00-13.00 & 14.00-22.00 on all freq's (exc. on 4994kHz at 13.00-14.45).
Prgr. for So. Sudan/Ea. Africa (in Arabic & English): 07.00 09.00 (Sun), 16.00-19.00 on 4994/11835kHz.
English: 17.15-18.00 (varies).
ANN. E: "This is R. Omdurman, the Voice of the Democratic Republic of the Sudan" — V. by letter.

ST. HELENA (British)

L.T: GMT — **Pr.L:** English.

ST. HELENA GOV. BROADCASTING STATION
ADDR: Education Dept Jamestown — **L.P:** Educ. Officer: R. T. Billing. Gov. Inf. Officer: G. C. Lawrence.
STATION: 1511kHz 198.5m 1kW.
HOME SCE. in English: Fri only 09.45-11.30 (Schools); Sat 17.00-18.00 (alt. Sat 16.30-18.00); Sun 12.00-13.00, 17.00-18.00. N (local) 17.00 (Sat).
ANN: "You are tuned to the St. Helena Gov. Broadc. St. transmitting at 1511kHz in the m.w. band" — **INT-SIG:** Trumpet call 11 seconds repeated at 5 second intervals for four minutes followed by "Life on the Ocean Waves" — V. by QSL-card.

SWAZILAND (Kingdom)

L.T: GMT + 2 h — **Pr.L:** English, siSwati.

SWAZILAND BROACASTING SERVICE (Gov.)
ADDR: P.O. Box 338, Mbabane. **Te:** 2761. **L.P:** Dir. of Broadc. & Inf: D. T. Nkosi. Chief Eng: C. A. Rowley.
STATION: 881kHz 340.5m 10kW — **FM:** 103.99MHz.
HOME SCE in siSwati, English: 04.30-07.00, 10.30-11.30, 15.00-19.20. During school terms also 09.00-10.30, 11.30-13.00.
N(BBC): 05.00, 11.00, 16.00. **Local N:** after BBC N. at 16.00. **N in siSwati:** 16.30.
ANN: "Swaziland Broadc. Sce". "This is the Swaziland Broadc. Sce" or "This is R. Swaziland".
INT-SIG: At sign on "Cilongo" (The Swazi trumpet) — V. by letter. **ALF:** £0.15.0.

TANZANIA

L.T: GMT + 3 h — **Pr.L:** Swahili, English.

RADIO TANZANIA (Gov.)
ADDR: P.O. Box 9191, Dar es Salaam — **L.P:** Dir. of Broadc: M. Kiama, Asst. Dir. of Broadc: D. Wakati. Superintendent Radio Engineering: P. I. Mhumbira.

STATIONS (G.C: 39.14E/06.50S):

kHz	m	kW	kHz	m	kW
656	457.3	100	5985	50.12	50
836	358.9	1.25	7165	41.87	20
1025	292.7	1.25	7280	41.21	10
1250	240.0	1.25	9530	31.48	20
3251	92.58	5	9550	31.41	50
4785	62.70	10	15435	19.44	50
5050	59.41	20			

HOME SERVICE: Swahili: 03.00-05.00 (Sun 07.00) on 836/5050kHz, 09.00 (Sun 07.00) — 11.00 on 836/7165/9530kHz, 11.00-14.30 on 836/7165/9550kHz, 14.30-20.00 on 836/5985kHz.
N: 04.00, 10.00, 13.00, 15.00, 17.00, 19.00.
English: 03.30-05.00 (Sun 06.45) on 1025/4785kHz. 09.00-11.00 (Sat 14.45, Sun 06.45-14.45) on 1025/7280kHz, 16.00 (Sat/Sun 14.45)-19.00 on 1025/4785kHz.
N: 04.00, 10.00, 13.00, 15.00, 17.00, 19.00. **Wrp:** in 17.00 N
Adult Education Prgr. (Swahili, English): Mon-Fri 14.00-16.00 on 1025/4785kHz. **N:** 14.00, 15.00.
Schools: Mon-Fri 07.00-09.00 on 1250/7165/9550kHz, 11.30-13.00 on 1250/9530kHz; Sat 05.30-06.30 on 1250/5985/7165kHz; 06.30-07.30 on 1250/7165/9550kHz.
EXTERNAL SCE: 17.00-20.00 on 15435kHz (in English, Comoro, French, Ndebele, Shona, Zulu, Sotho, Ovambo, Herero, Afrikaans, Portuguese, Nyanja, Makonde, Lomue, Shangana) — **N: English** 17.00-17.10. **Portuguese** 17.10-17.20. **Nyanja** 17.20-17.30.
ANN: English: "This is the English Sce of Radio Tanzania Dar Es Salaam". Swahili: "Hii ni Radio Tanzania Dar Es Salaam". — **INT-SIG** play on Celeste or Piano.

V. by QSL-card — **FI:** By Gov. and Adv — **ALF:** Free —

RADIO TANZANIA ZANZIBAR (Gov.)
ADDR: P.O. Box 1178, Zanzibar, Tanzania. **Te:** 2928. **Cable:** Broadcasts — **L.P:** Chief Inf. & Broadc. Officer: Omar M. Omar. Dir. Tec: M. A. Suleiman. Broadc. Officer: J. C. Asama.
STATIONS (G.C: 39.12E/06.09S): 584kHz 513m 2kW: 3339kHz 89.90m 10kW — 6005kHz 49.96m 10kW.
HOME SCE. in Swahili: 03.30-04.30, 14.00-19.30 on 584/3339kHz, 11.00-12.00 on 6005kHz.
ANN: "Hii ni Sauti ya Radio Tanzania, Zanzibar".

TOGO (Republic)

L.T: GMT — **Pr.L:** Ewe, Cotocolis, Cabrais, Hausa, Moba, Bassari.

RADIODIFFUSION DU TOGO (Gov.)
ADDR: B.P. 434, Lomé. **Te:** 2492. **Cable:** Radio Togo. **L.P:** Dir: G. Ekue. Dir. Tec: L. Poenou.
STATIONS (G.C: 01.12E/06.16N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1394	215.2	1	6155	48.74	4	7265	41.29	100
5047	59.44	100						

HOME SCE. in French, Vernaculars: 05.30-08.00 on 1394/5047/6155kHz; 08.03-09.00, 12.00-14.00 and 16.30-17.27 (Sun 08.03-17.27) on 1394/5047/7265kHz, 17.30-23.00 on 1394/5047/6155kHz.
N. in French: 05.35, 06.30, 07.57, 10.08 (Sun), 12.30, 13.57, 17.30, 19.30, 22.00, 22.57 — **N. in English:** 12.45, 19.50.
Vernaculars: 06.00, 06.05 (W), 13.00, 13.10, 17.35, 17.45, 17.55, 18.05, 18.15, 18.35 (Sun 13.00, 13.10, 18.15, 18.35).
ANN: "Ici Lomé Radiodiffusion du Togo". At opening and close down: Hymn Togolais — V. by QSL-card. Re. in F, E, Rec. acc. — **PUB:** Prgr. sched. (weekly).

TRISTAN DA CUNHA (British)

L.T: GMT — **Pr.L:** English.

ZOE TRISTAN RADIO (Gov.)
ADDR: The Administrator, Wireless Station, Tristan da Cunha, So. Atlantic. **L.P:** Dir. of Broadc: A. Hemming.
STATION (G.C: 37.00S/12.00W): 3290kHz 91.19m 0.04kW.
HOME SCE. in English: Sun, Wed & Fri 19.00-22.00.
N: 20.00 (BBC), 20.09 (local).
ANN: "This is Tristan Radio Broadc. Station" — **INT-SIG:** Scottish Soldier (vocal) — V. by QSL-card or letter.

TUNISIA

L.T: GMT + 1h — Pr.L: Arabic — E.C: a/c 50 (yes).

RADIODIFFUSION TELEVISION TUNISIENNE (Gov.)
ADDR: 71, Ave. de la Liberté, Tunis. Te: 259311.
STATIONS:

	kHz	m	kW		kHz	m	kW
Tunis I	629	476.9	600	— Sfax I	719	417.2	100
Tunis II	962	311.9	100	— Sfax II	602	498.3	5

Shortwaves (Djédeida)

kHz	m	kW	kHz	m	kW	kHz	m	kW
5985	50.13	50	15215	19.71	100	17720	16.93	100
6195	48.43	50	15385	19.50	100	17735	16.92	50
11900	25.21	100						

ARABIC NETWORK (Nat. Prgr): 04.30-23.30 on 629/719 kHz & relayed to Mid-East & No. Africa on 11900, 15215 or 15385kHz — **Local Prgr:** 05.00-23.30 on 602kHz.
INTERNATIONAL NETWORK: Tunis II 962kHz 312m 100kW — FM: 96. 5MHz 3kW.
International Prgr: W 05.30-07.30, 11.00-22.00; Sun 05.30-22.00. Jan-June also 07.00-11.00 (courses from R. Sorbonne, Paris). **Italian:** 13.30-14.30 — **Relay Nat. Prgr:** 22.00-23.30.
ANN: Arabic: — "Hunna Al Itha Attounissia". F: "Içi Tunis Radiodiff. Télévision Tunisienne". I: "Radiodiff. Tunisina, Rete Internazionale Programma Italiano" — V. by QSL-card. Re. in Arabic, E, F, Rec. acc.

UGANDA (Republic of)

L.T: GMT + 3 h — Pr.L: English, Vernaculars — EC: a/c 50 (yes).

RADIO UGANDA (Gov.)
ADDR: Ministry of Inf. Broadc. and Tourism, Broadcasting House, P.O. Box 2038, Kampala. Te: 57251. Cable: Broadcasts. L.P: Contr. of Prgrs: P. W. Ekodeu. Chief Eng: H. F. Humphreys.
STATIONS mw: 1/2/50kW, sw: 3/8W (G.C: 32.36E/00.20N).

kHz	m	Netw.	kHz	m	Netw.	kHz	m	Netw.
575	521.7	Blue	4976	60.29	Red	7110	42.19	Blue
638	470.2	Blue	5026	59.70	Blue	7195	41.70	Red
728	412.0	Red						

HOME SCE. Red Network (Nat. No. Reg. Prgr's): 03.25-05.45 on 728/4976kHz, 06.00-11.30 (Sun 14.00) on 728/7195kHz, 14.00 (Sun 14.15)-21.02 on 728/4976kHz — **N. in English:** 04.00, 05.00, 06.00, 09.00 (Mon-Fri), 09.15 (Sun), 10.00 (Mon-Fri) 17.00, 18.00, 20.00 (exc. Sat), 21.00.
Blue Network (Nat. Midland & We. Reg. Prgr's): 03.45-05.45 on 575/638/5026kHz, 06.00-11.30 (Sun 14.00) on 575/638/7110kHz, 14.00 (Sun 14.15)-21.02 on 575/638/3026kHz.
N. in English: 04.00, 05.00 (Sat/Sun), 06.00 (Sat/Sun), 09.00 (Mon-Fri), 09.15 (Sun), 10.00 (W), 18.00, 20.00 (exc. Sat) 21.00.
ANN. E: "This is R. Uganda, Kampala" — **INT-SIG:** African Drums — V. by letter. Recordings accepted — **F.PL:** Four 100W mw-tr's + External Service.

UPPER VOLTA

L.T: GMT — **Pr.L:** French + 13 vernacular languages.

RADIODIFFUSION-TELEVISION VOLTAIQUE (Gov.)
Addr: B.P. 511, Ouagadougou. Te: 2214. Cable: Radiovolta. **L.P:** Dir R. Nikiema. Dir. of Prgrs: Y. Gnessien. Dir. N. E. Yameogo. Dir. Tec: J. M. Quedraogo.
Stations (G.C: 01.31W/12.22N): 1340kHz 223.8m 1kW 4815kHz 61.31m 4kW — 9515kHz 31.53m 4kW.
HOME SCE. in French, Vernaculars: W 06.00-08.00, 12.00 (Wed, Fri 11.00)-14.00, 17.00-23.00 (Sat 12.00-23.00); Sun 07.00-23.00. **N. in French:** 06.30 (W), 07.45, 08.30 (Sun), 12.10, 12.45, 15.30 (Sat), 19.10, 19.45, 22.15, 22.55 — **Wrp:** W 12.40 — **Vernaculars:** 17.45-19.10.
R. Bobo-Dioulasso. Addr: B.P. 392, Bobo-Dioulasso. **Te:** 169. **Cable:** Radio Volta Bobo. **L.P:** St. Mgr: P. Barry. Dir. Tec: P. Songre. **Station:** 1586kHz 189.1m 1kW — Relay Ouagadougou in French: W 06.25-08.00, 12.00-13.30, 19.00 (Sat 18.00)-22.00; Sun 11.00-22.00.
ANN: "Ici Ouagadougou, Radiodiff. Télévision Voltaique émettant" — **INT-SIG:** Folklore Music (Balafon) — V. by QSL-card or letter.

ATTENTION: WIRELESS OPERATORS
Only the WRTH enables you to know where, when and what to tune in to when crossing the oceans. WRTH is your key to advance knowledge of what happens in your next port and country.

ZAMBIA

L.T: GMT + 2 h — **Pr.L:** English, Vernaculars.

ZAMBIA BROADCASTING SERVICES (Gov.)
ADDR: Broadc. House, P.O. Box RW 15, Lusaka; P.O. Box 748, Kitwe. Te: 72986. Cable: Broadcasts — **L.P:** Dir: A. Nkhata. Chief Eng: J. Allerton
STATIONS: GS = General Service; HS = Home Service.
Medium Waves:

	kHz	m	kW	Sce
Kitwe	548	547.4	20	GS
Lusaka	629	476.9	2	HS
Lusaka	818	366.7	2	GS
Kitwe	1070	280.4	20	HS
Livingstone	1142	262.7	2	GS
Kabwe	1457	205.9	2	GS
Livingstone	1520	197.3	2	HS
Kabwe	1570	191.1	2	HS

Short Waves (Lusaka) (G.C: 28.15E/15.30S):

kHz	m	kW	Sce	kHz	m	kW	Sce
3295	91.05	10	HS	*6165	48.66	20	GS
3346	89.68	120	GS	7220	41.55	10	HS
4911	61.08	10	HS	7240	41.44	120	GS
4965	60.42	2.5	GS	9505	31.56	10	HS
6060	49.50	20	HS	**9580	31.32	2.5	GS

*) Varies — **) Varies between 9577 & 9635kHz.
D.PRGR'S. General Service (English, Vernaculars): 02.55-05.30 on 3345/4965/6165kHz, 05.30-05.45 on 4965/6165kHz, 05.45-06.30 on 4965/6165/7240kHz, 06.30-06.45 on 6165/7240kHz, 06.45-14.00 on 6165/7240/9580kHz, 14.00-14.15 on 6165/7240kHz, 14.15-15.30 on 4965/6165/7240kHz, 15.30-15.45 on 4965/6165kHz, 15.45-17.00 on 3346/4965/6165kHz, 17.00-21.00 on 3346/4965kHz.
N. in English: W 03.45, 04.00, 05.00, 06.00, 09.00, 11.15, 16.00, 18.00, 20.00, 21.00. Sun 07.00, 11.15, 16.00, 18.00, 20.00.
HOME SCE (Vernaculars): 02.55-06.00 on 3295/4911/6060kHz, 06.00-07.00 on 4911/6060/7220kHz, 07.00-14.00 on 6060/7220/9505kHz, 14.00-16.00 on 4911/6060/7220kHz, 16.00-17.00 on 3295/4911/6060kHz, 17.00-21.00 on 3295/4911kHz — **N.** (Vernaculars): 03.45, 03.50, 03.55, 04.00, 04.30, 08.50, 10.45, 13.45, 16.10, 17.15.
ANN: Gen. Sce: "This is Lusaka calling" or "You are tuned to the General (Home) Sce. of R. Zambia". "This is ZBS Radio" — **INT-SIG:** "Call of the Fish Eagle" — **PUB:** Monthly prgr. Schedule V. by letter — **FI:** by state license fees, adv — **ALF:** £1 (Radio + TV £5).

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- publishes a unique short-wave log with time indication
- sends you information and a sample copy of DX-RADIO if you ask for it enclosing one IRC
- has the following address: Sveriges Radioklubb, Box 5083, S–102 42 Stockholm 5, Sweden
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For additional information and technical data write today, to: Shure Brothers, Inc., Export Department, 222 Hartrey Ave., Evanston, Illinois 60204, U.S.A.

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UNIDIRECTIONAL DYNAMIC BOOM MICROPHONE

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MODEL SM56
CARDIOID DYNAMIC
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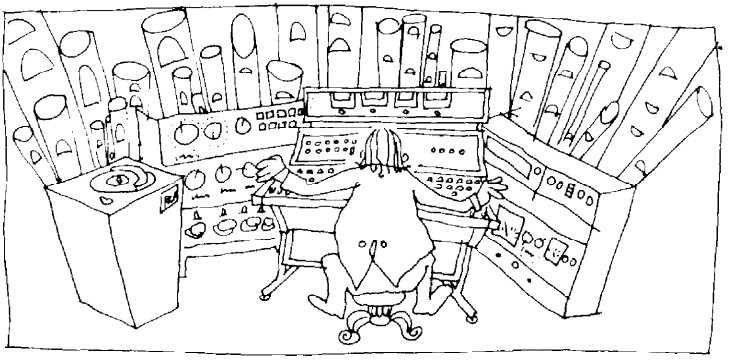
MODEL SM33
UNIDIRECTIONAL RIBBON
Warm, smooth sound for studio, control room, and scoring stage. Super-cardioid directional pattern. Compact, yet rugged.

MODEL SM76
¼" OMNIDIRECTIONAL DYNAMIC
Ideal for interviews and audience participation, yet unusually smooth wide range response (40-20 KC) for critical music reproduction. Instantly detachable from stand. Steel case with Cannon connector.

MODEL SM50
OMNIDIRECTIONAL DYNAMIC
Self-windscreened and pop-free for news, sports, remotes, and interviews. Also ideal for many studio and control room applications. Comfortably balanced for hand or stand use. Natural response.

AL 270

One-man audio band



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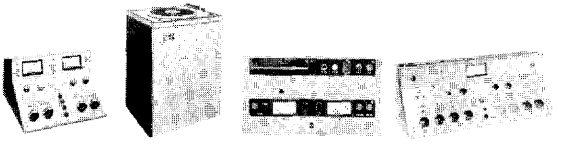
For a great new turntable, a modern microphone—for anything you need in audio—contact your local authorized RCA Distributor, or the RCA International Marketing subsidiary nearest you.

RCA



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BUENOS AIRES, ARGENTINA, RCA International Ltd., Calle Paroissien 3960
GENEVA, SWITZERLAND, RCA International Marketing S.A., 2-4 rue du Lièvre, 1227 Acacias
HONG KONG, RCA International Ltd., 1927 Prince's Building, Chater Road
NORTH RYDE, N.S.W., AUSTRALIA, RCA Ltd., 11 Khartoum Road
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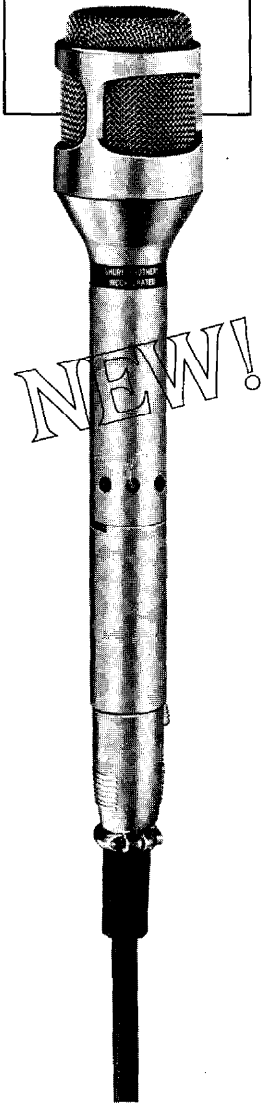
SHURE

SM53

UNIDIRECTIONAL DYNAMIC MICROPHONE



NEW!

one or all of these provable advantages can make this your most effective and reliable microphone!

1. WIDER FRONT WORKING ANGLE
The SM53 allows *greater freedom of performer movement—tonal quality is unaffected by movement throughout* the broad effective pickup area. *Eliminates "holes" and "hot spots"* when using multiple microphones. These valuable attributes stem from a broad, true cardioid frontal pattern *at all frequencies, in all planes*—freeing the user from the restrictions of overly tight angular sensitivity.

2. MORE EFFECTIVE REJECTION OF UNWANTED SOUNDS
The SM53 prevents sound coloration due to off-axis reflections or reverberation—and, in addition, unwanted sounds (even air conditioner rumble) are effectively controlled. These properties are achieved through the polar pattern which is singularly uniform with frequency (even at the extreme low end) and is symmetrical about its axis.

3. MECHANICAL NOISE ISOLATION
Built-in effective shock mount significantly reduces the objectionable stand, cable, and handling noises associated with many unidirectional microphones. The SM53 can be used in many applications where conventional units have proved marginal or unusable.

4. EXTRAORDINARY RUGGEDNESS
You can even drop the SM53 directly on its nose without damaging the microphone element—and it will maintain its excellent performance characteristics.

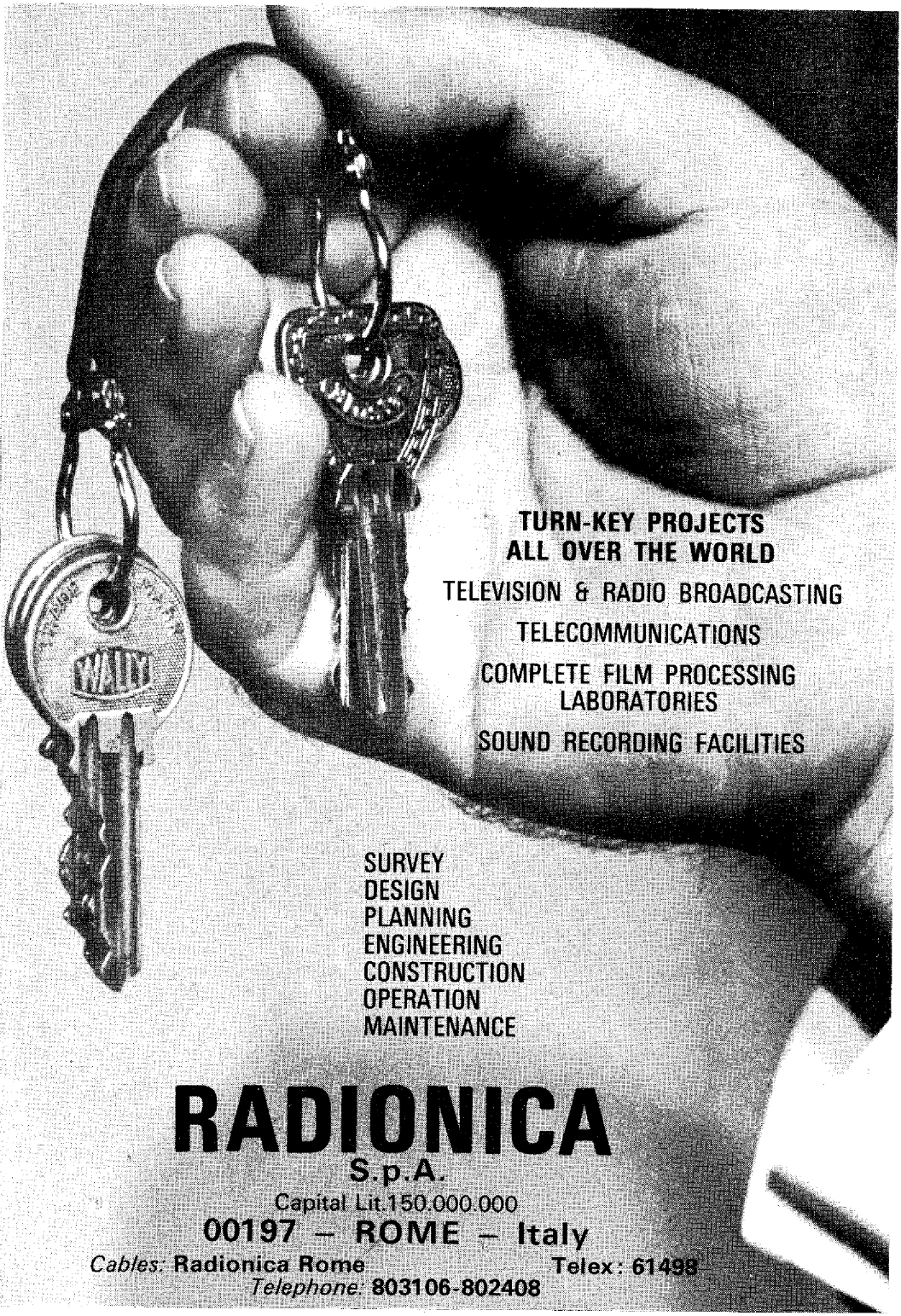
5. SUPERIOR HUM REJECTION
Built-in hum-rejection system reduces magnetic hum susceptibility by as much as 20 db compared to other units! Makes it far more usable in distant pickup applications and in areas with extremely high magnetic fields.

6. LESS SUSCEPTIBILITY TO "POP"
Integral "pop" filter minimizes explosive breath noise without external screening. Works well where other microphones are marginal or unusable.

7. MINIMIZED PROXIMITY EFFECT
Uniform tonal quality is maintained (without objectionable low-end build-up) regardless of whether the microphone is worked close up or from a distance.

8. FIELD SERVICEABILITY
Element (cartridge), connector, front screen, roll-off switch can all be replaced in minutes.

SHURE BROTHERS INC., International Sales, 222 Hartrey Avenue, Evanston, Illinois 60204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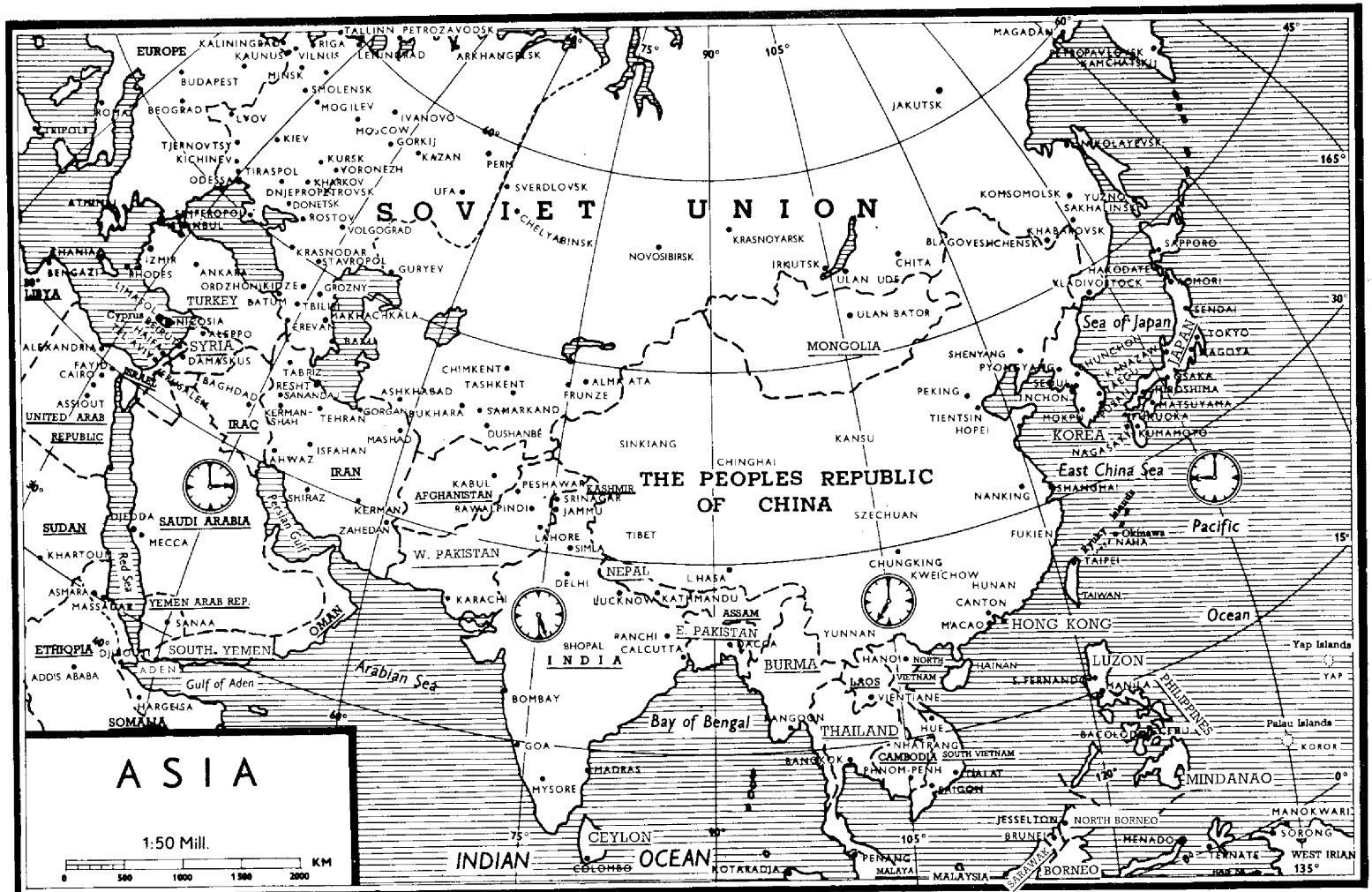
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NEPAL
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JAPAN
Sea of Japan
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Arabian Sea
Bay of Bengal
INDIAN OCEAN
Gulf of Aden
Persian Gulf
Red Sea
SUDAN
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KASHMIR
SRINAGAR
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RAWALPINDI
PESHAWAR
SIMLA
KATHMANDU
LUCKNOW
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RANCHI
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BACOLOD
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MASSAWA
ADDIS ABABA
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ASSWAN
SUDAN
ETHIOPIA
SOMALIA
YEMEN ARAB REP.
SOUTH. YEMEN
SANAA
ADEN
DJIBOUTI
OMAN
Gulf of Aden
Red Sea
Persian Gulf
Arabian Sea
UNITED ARAB REPUBLIC
IRAQ
IRAN
SAUDI ARABIA
LIBYA
EUROPE
TURKEY
SYRIA
INDIAN OCEAN
CEYLON
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60°
75°
90°
105°
120°
135°
150°
165°
30°
15°
0°
30°
45°
60°

ASIA

AFGHANISTAN

L.T: GMT+4½h—**Pr.L:** Pushtu, Dari—**EC:** a/c **50 (yes).**

RADIO AFGHANISTAN (Gov.)
ADDR: P.O. Box 544, Kabul. **Te:** 25241. **Cable:** Radioaf. **L.P:** Dir: A. L. Jalali. Dir. Tec: M. K. Attaie. Head, Public Rel. Dept: Miss M. Rafiq.
STATIONS: Kabul/Jakatut; *) Pol-e-Tscharchi.

kHz	m	kW	kHz	m	kW
660	454.4	20	9510	31.55	100
*1280	234.0	100	11790	25.45	50
3390	88.50	10	15265	19.66	100
4775	62.84	100nd	15415	19.46	50
6000	50.00	50	21605	13.89	100
7200	41.67	50			

HOME SCE. in Pashtu/Dari: 02.30-04.30 on 1280/6000/7200kHz, 07.30-08.30 on 660/6000/7200kHz, 11.30-18.30 on 1280kHz, 11.30-14.30 on 7200kHz, 13.00-17.45 on 660/3390kHz. **N:** 02.30, 03.00, 07.30, 08.15, 11.30, 12.30, 13.30, 13.37, 14.30, 15.30. 16.30, 17.30.

FOREIGN SCE: a) Directional (to Europe).

English	kHz	Urdu	kHz
18.00-18.30a	11790,15265	13.00-14.00b	4775
German		**English**	
17.30-18.00	11790,15265	14.00-14.30b	4775
Pashtu/Dari		**Pashtu/Dari**	
12.00-13.00a	15415,21605	14.30-17.30b	4775
Russian		b) Non directional.	
17.00-17.30b	7200		

NEWS: English: 14.02, 18.02. **German:** 17.35. **Pashtu:** 12.00, 14.30, 15.30. **Dari:** 12.30, 16.30. **Russian:** 17.02. **Urdu:** 13.05.
ANN: "Da R. Afghanistan Kabul Dai" — **INT-SIG:** A record on national flute — **V.** by QSL-card. Rec. acc. Reports to P.O. Box 544, Kabul.

BAHRAIN (British)

L.T: GMT+4h — **Pr.L:** Arabic

BAHRAIN BROADCASTING STATION (Gov.)
ADDR: P.O. Box 253, Manama, Bahrain, Abrabian Gulf. **Te: 612278.**
STATION: 610kHz 491.8m 2kW — **HOME SCE. in Arabic:** 05.30 (Fri 04.00)-08.00, 16.00-19.30.
ANN: Arabic: "Hunal Bahrain" (This is Bahrain).
INT-SIG: Local composition of guitar and violin — **V.** by letter.

BRUNEI (British Protected State)

L.T: GMT+8h — **Pr.L:** Malay, English, Chinese.

RADIO BRUNEI (Gov.)
ADDR: Dept. of Broadc. and Inf, Brunei. **Te:** 345. **Cable:** Infoff — **L.P:** Dir. of Broadc. and Inf: G. V. de Freitas. Dept. Dir: Md. Abd. Kadir. Chief Eng: N. J. A. Frigout. Press Officer: M. C. Yussof.
STATIONS:

895kHz 10kW (Berakas):	23.00-00.30, 08.00-14.30
970kHz 0.6kW (Kuala Belait):	23.00-00.30, 08.00-14.30
1100kHz 10kW (Berakas):	22.30-06.00, 10.00-14.30
1240kHz 20kW (Tutong):	22.30-06.00, 10.00-14.30
4865kHz 10kW (Berakas):	22.00-14.30
7215kHz 10kW (Tutong):	23.00-00.30, 08.00-14.30

HOME SCE: Malay: 22.30-01.00, 04.30-06.00, 10.00-14.30 on 1100/1240/4865kHz — **English:** 23.00-00.30 on 895/970/7215kHz, 03.00-04.30 on 1100/1240/4865kHz, 12.00-14.30 on 895/970/7215kHz — **Chinese:** 01.00-03.00 on 1100/1240/4865kHz, 08.00-11.00 on 895/970/7215kHz — **Gurkha Forces Sce:** 11.00-12.00 on 895/970/7215kHz.
ANN: E: "This is R. Brunei". Malay: "Inilah R. Brunei" — **INT-SIG:** Opens with the sound of Native gong preceded by TS — **V.** by QSL-card or letter (for sw only). Re. to Chief. Eng. Rec. acc — **PUB:** "Suara Brunei" (Voice of Brunei), in English, Malay, Chinese.

BURMA

L.T: GMT+6½h — **Pr.L:** Burmese, English.

BURMA BROADCASTING SERVICE (Gov.)
ADDR: Prome Rd, Kamayut P.O, Rangoon. **Te:** 31355. **Cable:** Burbrocast — **L.P:** Dir: Major Kyaw Sunn, U. Kyaw Nyein. Dir. Tec: U. Win Mg, M.I.R.E. Dep. Dir. Adm: U. Kyaw Minn.
STATIONS (G.C: 96.05E/16.55N):

Call	kHz	m	kW	Call	kHz	m	kW
XZK	955	314.0	50	XZK42	5040	59.52	50
XZK8	1150	261.0	5	XZK3	6035	49.71	50
XZK2	4725	63.49	50	XZK4	7120	42.13	50

FM: 100/102/104/106MHz 0.25kW.
HOME SCE: Prgr. I:
Burmese: 00.30-01.30 on 955/6035kHz, 04.30-07.00 on 955/7120kHz, 11.00-14.30 on 955/5040kHz — **N:** 01.00, 06.30, 13.30 — **Wrp:** 13.28 — **Folklore Music:** Mon/Wed/Fri 13.45 — **English:** 01.30-02.30 on 955/6035kHz, 07.00-07.30 on 955/7120kHz, 14.30-16.00 on 955/5040kHz. **N:** 02.00, 07.00, 14.45 — **Mbg:** Wed, Fri 14.30, Sat 07.10. Sun 02.10.
Prgr. II (Burmese): 11.00-14.45 on 1150/4725kHz.
ANN: E: "This is the Burma Broadc. Service". Burmese: "Myanma Athan Hlwint Nay Barthe" — **INT-SIG:** Burmese Orchestral Music — **ALF:** K9/- for 3 years — **EC:** a/c 50 (no).

CAMBODIA

L.T: GMT+7h — **Pr.L:** Cambodian, French, English.

RADIODIFFUSION NATIONALE KHMERE (Gov.)
ADDR: 28, Av. Preah Mohaksatryany Kossomak, Phnom-Penh. **Te:** 3958. **Cable:** Miformation — **L.P:** Dir. Gen: D. Chân. St. Mgr. and Dir. Tec: E. Samrech.
STATIONS (G.C: 104.51/11.34N):

kHz	m	kW	kHz	m	kW
1410	212.8	120	6090	49.26	50
740	405.4	20	9695	30.94	50
4907	61.14	15			

4907kHz very variable. Currently heard on 5002kHz.
HOME SCE. (Nat. Netw): On 1410/6090kHz: 23.00-17.00. **N:** 23.00 (Sun 00.00), 05.00, 07.00, 12.00, 14.00.
INTERNATIONAL SCE: On 740/4907kHz (Netw. I): 23.00-24.00, 05.30-06.00, 12.30-13.00, 14.00-14.30. **N. in English:** 23.45 (Sun 00.45), 05.45, 12.45. **N. in French:** 23.30 (Sun 00.30), 05.30, 12.30. **Comm. in French:** Mon, Wed, Fri 14.00-14.30 — On 9695kHz (Netw. II): 01.45-04.15, 12.00-14.40. **N: English:** 02.00, 03.45. **French:** 02.15, 03.30. **Khmère:** 01.45, 03.15. **Thai:** 04.00, 14.30. **Chinese:** 1200, 12.30, 13.00. **Loatian:** 14.00. **Vietnamese.** 13.30.
ANN: F: "Ici Phnom-Penh, La Voix du Cambodge". E: "This is R. Phnom-Penh, the Voice of Cambodia". **V.** by letter — **AD:** 00.00-01.30 — **EC:** a/c 50 (no).

CEYLON

L.T: GMT+5½h — **Pr.L:** English, Sinhala, Tamil.

CEYLON BROADCASTING CORPORATION (Public Corporation)
ADDR: P.O. Box 574, Colombo 7 (Comm. Sce: P.O. Box 1510). **Te:** 93171. **Cable:** Radceylon — **L.P:** Chmn. of Board of Dir's and Dir. Gen: N. D. Jayaweera. Dep. Dir. Gen: N. S. Wickremasinghe. Ag. Secr: K. P. Wrerasekera. Dir. Nat. Sce: D. T. L. Guruge. Dir. Comm. Sce: L. R. Wijemanne.
STATIONS (G.C: 79.54E/07.06N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
570	526.3	1	4900	61.22	10	7180	41.78	10
640	469.0	20	4968	60.38	10	9670	31.02	100
700	428.0	50	5020	59.76	10	9720	30.86	100
870	344.8	20	5076	59.10	10	11800	25.42	35
920	326.0	25	6005	49.96	10	15120	19.84	100
1030	294.0	20	6075	49.38	10	15230	19.70	100
3385	88.63	10	6130	48.94	10	17815	16.84	35
4870	61.60	10	6185	48.50	10	17830	16.83	35

NATIONAL SCE. (P. & H=Poya days and holidays): **English:** 09.30-17.15 on 920/5020kHz (P. & H: 04.30-07.30 on 920/6130kHz) — **Sinhala:** 00.30-03.00 on 700/4900kHz (00.30-01.25 also on 3385kHz), 06.30-08.00 on 700/6075kHz, 10.30-17.00 on 700/3385/4900kHz (P. & H: 00.25-03.00 and 10.00-17.00 on 700/3385/4900kHz, 03.00-08.00 on 700/6075kHz — **Tamil:** 01.00-03.00 on 870/4968kHz, 06.30-08.00 on 870/6005kHz (P. & H: 03.00-08.00 on 870/6005kHz, 10.30-17.00 on 870/4968kHz).
Sandya Sevaya (Sinhala): 14.30-17.35 on 1030/5076kHz.
Educational Sce: 03.50-05.30 on 700/6075kHz, 12.55-14.25 on 1030/5076kHz.
COMMERCIAL SCE: to Ceylon:
English: 01.00-03.00 on 920/5020kHz, 03.00-03.30 on 920/6130kHz, 07.30-09.30 on 920/5020kHz, 12.30-17.35

on 640/4870kHz. **N.** (BBC): 02.00, 13.00, 16.00.
Sinhala: 01.00-03.00 on 640/4870kHz, 03.00-10.30 on 640/6185kHz, 10.30-12.30 on 640/4870kHz.
Tamil: 01.00-04.30, 08.30-12.30 on 1030/5076kHz.
To Asia: English: 01.30-03.30 (Sun 04.30) on 9720/15120 kHz, 12.30-17.30 on 7180/15120kHz. **Hindi:** 01.30-04.30 (Sun 07.30) on 7180/11800kHz, 14.30-17.30 on 9720/11800 kHz. **Tamil:** 11.00 (Sat/Sun 10.30)-12.30 on 9720/11800 kHz.

EXTERNAL SERVICE in English
To So. East Asia: 11.00-12.00 on 17830kHz.
Sinhala: Sun 11.15-11.45. Tamil: Tues 11.15-11.45. Urdu: Thurs 11.30-11.45. Malay: Fri 11.15-11.45. Hindi: Sat 11.30-11.45. All other times in English — **N. in English:** 11.10.
NB: The Ce. Bc. is carrying out extensive tests on mw very often and occasionally on sw too on registered frequencies with regular services.
Poya days (holiday instead of Sundays) fall at Full Moon, Last Quarter, New Moon and First Quarter.
DX-Panorama: 2nd and last Sat of month 11.00-11.15.
ANN: E: National Sce: "This is the National Sce. of the Ceylon Broadc. Corpo". Ext. Sce: "This is R. Ceylon, the Overseas Sec. of the Ceylon Broadc. Corpo. calling listeners in South East Asia". Comm. Sce: "This is R. Ceylon the Comm. Sce. of the Ceylon Broadc. Corpo.".
INT-SIG: Nat. Sce: Nat. Drums (Magul Bera) followed by Jaya Mangala Gatha. External Sce: Oriental folk theme "Gajaga Vannama". **V.** by QSL-card or letter. Re. in E. to be addressed to Listener Research Officer. Recordings accepted — **PUB:** R. Times (fortnightly). **FI:** By state, license, adv. — **ALF:** Rs. 15/-

VOICE OF AMERICA RADIO STATION IN COLOMBO
ADDR: Voice of America, Washington D.C. 20547, USA.
STATIONS: Colombo 35kW (G.C: 79.54E/07.06N).

kHz	m	kHz	m	kHz	m	kHz	m
7105	42.22	7275	41.24	11835	23.35	15285	19.63

D.PRGR: English: 01.00-03.30, 11.30-18.00. **Tamil:** 15.00-15.30. **Urdu:** 15.30-16.30.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America from Colombo".
INT-SIG: Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs — **V.** by QSL-card. Reports required. No Rp.

CEYLON REDIFFUSION SERVICE LTD. (Gov, Comm.)
ADDR: P.O. Box 1002, Colombo. **Cable:** Rediffusion. **Te:** 27161. **L.P:** Gen. Mgr: W. Macdonald.
Four prgr's (English, Hindi, Tamil, Sinhala) via wired network.

CHINA (Peoples Rep. of)

L.T: GMT+8h (Urumchi: GMT+6h) — **Pr.L:** Chinese.

BROADCASTING ADMINISTRATION (Gov.)
ADDR: Broadc. Adm, Fu Hsin Men, Peking.

RADIO PEKING/CENTRAL PEOPLES' BROADCASTING STATION
Medium Waves (Home Service): 135/270kW:

kHz	kHz	kHz	kHz	kHz	kHz
540	630	760	955	1120	1330
560	645	803	970	1140	1350
570	690	825	980	1160	1445
590	720	840	1000	1210	1480
600	730	850	1090	1280	1510
610					

Medium Waves (Foreign Sce).

kHz	m	kHz	m	kHz	m
1020	294.1	1300	230.8	1340	223.9
1040	288.5	1310	229.0	1525	196.7
1190	252.1	1313	228.5		

Short Waves (Home and Foreign Services): 120/240kW.

kHz	m	kHz	m	kHz	m	kHz	m
2800	107.10	3795	79.05	3960	75.76	4250	70.59
3200	93.75	3815	78.64	3980	75.38	4360	68.81
3220	93.17	3830	78.33	3990	75.19	4460	67.26
3270	91.74	3865	77.60	4020	74.63	4620	64.94
3290	91.19	3880	77.32	4035	74.35	4770	62.89
3360	89.29	3900	76.92	4060	73.89	4860	61.73
3390	88.50	3905	76.82	4130	72.64	4905	61.16
3450	86.96	3915	76.63	4160	72.12	4960	60.48
3500	85.71	3920	76.53	4200	71.43	5030	59.64
3660	81.97	3940	76.14	4220	71.09	5075	59.11
5125	58.54	7005	42.83	9365	32.03	11920	25.17
5145	58.31	7025	42.70	9380	31.98	11925	25.16
5160	58.14	7035	42.64	9385	31.97	11930	25.15
5215	57.53	7060	42.49	9390	31.95	11945	25.12
5220	57.47	7065	42.46	9400	31.91	11957	25.09
5240	57.25	7070	42.42	9457	31.72	11965	25.07
5250	57.14	7075	42.40	9470	31.68	11975	25.05
5295	56.66	7080	42.37	9480	31.65	11980	25.04
5320	56.39	7095	42.28	9490	31.61	12005	24.99
5360	55.97	7110	42.19	9500	31.58	12010	24.98
5450	55.05	7115	42.16	9510	31.55	12015	24.97
5500	54.55	7120	42.13	9540	31.45	12035	24.93
5535	54.20	7150	41.96	9550	31.41	12055	24.89
5545	54.10	7155	41.93	9570	31.35	12060	24.88
5650	53.10	7170	41.84	9590	31.28	12065	24.87
5850	51.28	7190	41.72	9605	31.23	12110	24.77
5860	51.19	7200	41.67	9620	31.19	12120	24.75
5870	51.11	7230	41.49	9650	31.09	14990	20.01
5880	51.02	7240	41.44	9660	31.06	15000	20.00
5915	50.72	7250	41.41	9665	31.04	15030	19.96
5935	50.55	7265	41.29	9690	30.96	15040	19.95
5950	50.42	7270	41.27	9710	30.90	15060	19.92
5960	50.34	7280	41.21	9730	30.83	15080	19.89
5975	50.21	7300	41.10	9755	30.75	15095	19.87
5985	50.13	7305	41.07	9765	30.72	15115	19.85
6000	50.00	7315	41.01	9775	30.69	15140	19.82
6025	49.79	7335	40.90	9785	30.66	15175	19.77
6065	49.46	7350	40.82	9800	30.61	15195	19.74
6103	49.15	7370	40.71	9860	30.43	15236	19.69
6107	49.12	7435	40.35	9870	30.40	15241	19.69
6125	48.98	7440	40.32	9880	30.36	15255	19.67
6130	48.94	7450	40.27	9900	30.30	15270	19.65
6155	48.74	7480	40.11	9920	30.24	15290	19.62
6180	48.54	7490	40.05	9945	30.17	15315	19.59
6210	48.31	7500	40.00	9955	30.14	15370	19.52
6225	48.19	7580	39.58	9965	30.11	15417	19.46
6245	48.04	7610	39.42	9972	30.08	15435	19.44
6275	47.81	7620	39.37	9985	30.05	15480	19.38
6290	47.69	7630	39.32	10180	29.47	15500	19.35
6320	47.47	7660	39.16	10260	29.24	15520	19.33
6325	47.43	7700	38.96	10865	27.61	15550	19.35
6330	47.39	7720	38.86	11100	27.03	15590	19.24
6335	47.36	7770	38.61	11130	26.95	15610	19.22
6340	47.32	7820	38.36	11290	26.57	15710	19.10
6345	47.28	7925	37.85	11330	26.48	15880	18.90
6390	46.95	7947	37.75	11445	26.21	15960	18.80
6400	46.88	7980	37.59	11455	26.19	17450	17.19
6430	46.66	8245	36.39	11505	26.08	17490	17.15
6520	46.01	8260	36.32	11515	26.05	17533	17.11
6525	45.98	8270	36.28	11600	25.86	17605	17.04
6540	45.87	8300	36.15	11610	25.84	17650	17.00
6550	45.80	8330	36.01	11620	25.82	17680	16.97
6560	45.73	8345	35.95	11630	25.80	17700	16.95
6575	45.63	8350	35.93	11650	25.75	17715	16.93
6590	45.52	8400	35.71	11657	25.74	17720	16.93
6610	45.39	8425	35.61	11675	25.70	17740	16.91
6620	45.32	8440	35.55	11685	25.67	17745	16.91
6645	45.15	8490	35.34	11690	25.66	17750	16.90
6710	44.71	8565	35.03	11695	25.65	17765	16.89
6715	44.68	8747	34.30	11715	25.61	17780	16.87
6730	44.58	8940	33.56	11720	25.60	17795	16.86
6760	44.38	8965	33.46	11725	25.59	17810	16.84
6790	44.18	9020	33.26	11740	25.55	17835	16.82
6810	44.05	9060	33.11	11750	25.53	17850	16.81
6825	43.96	9065	33.09	11800	25.42	17860	16.80
6860	43.73	9080	33.04	11820	25.38	17875	16.78
6890	43.54	9170	32.72	11860	25.30	17897	16.76
6915	43.38	9245	32.45	11885	25.24	21780	13.97
6955	43.13	9290	32.29	11910	25.19	21600	13.89
6995	42.89	9340	32.12				

HOME SERVICES (Radio Peking)
First Prgr: 20.38-16.15 (approx) on 540/560/570/630/645/690/760/825/850/870/980/1140/1330kHz: also on sw: 3915/4460/5320/6107/6225/7095/7500/9060/9080/ 11290 / 11330/11920/15000kHz plus additional freq's in the 93, 19 and 16 m.b. — **N:** 21.30, 22.30, 23.30 (W), 00.00, 02.00, 04.30, 08.00, 10.00, 12.10, 12.30, 14.00, 15.00, 16.00.
Second Prgr: W exc. Tues: 21.38-03.40, 03.48-06.00, 09.38-16.30; Tues: 21.38-03.40, 03.48-16.30; Sun 21.38-16.30 on 600/610/720/1160kHz+4250/5075/6345/7190/9020/10260/11505/15030 (00.00-06.00 only), 17605kHz (also in the 91 m.b.).
N: 22.00, 23.00, 00.00 (dictation exc. Sun), 05.00(W), 15.00-16.30 (dictation).
Third Prgr: 00.48-06.00(Sun), 09.38-15.00(daily) on 1000/1120/6790kHz, and in the 78, 67 and 26 m.b.'s (78 m.b. reported on 3830kHz) — **N:** 11.25.
Fourth Prgr: (Peking Local): 22.35-02.45, 04.00-05.30,

Prgr: to Taiwan: 20.55-01.00, 02.55-06.05 (Sun 07.05), 08.25-17.05 on 590/685/750/910/1090/1198/1295/1480/1510kHz (Amoy/Foochow area st's) and on 5160/7025/7270/9170/11100/15590/15710/15880/17450 / 17490 / 17533 kHz (and on additional freq's in the 70 and 44 m.b.'s).
N (Standard Chinese): 22.00, 23.00, 04.00, 05.00, 10.00, 11.00, 12.00, 14.00, 15.00, 16.00. **Amoy:** 21.00, 00.00, 03.00, 08.30, 13.00. **Hakka:** 09.30.

FOREIGN SERVICE

Areas: I=S.E. Asia; II=Mid. East; III=No. America (East); IV=No. America (West); V=Australia, New Zealand; VI=Africa; VII=Europe; VIII=So. Asia; IX=N.E. Asia; X=Brazil; XI=Soviet Union; XII=So. America; XIII=Ce. America, Mexico, We. Indies.
(frequencies in bold type=Tirana Relay)

English Times	Areas	kHz/m.b.
00.00-01.00	III	15060/17673/17855
01.00-02.00	III	**7120/9780**/11445/15060/17673/17855
02.00-03.00	III	15060/17673/17855
03.00-04.00	IV	11445/11945/15095/17673/17795/**7120/9780**/15060
04.00-05.00	IV	11445/11945/15095/17673/17795/15060
05.00-09.00	VII	15185/15290/15380/17700/17745/17795
08.30-09.30	V	11600/11720/15060/15435/17835
09.30-10.30	V	11600/11720/15060/15435/17835
12.00-13.00	I	1190/1340/9290/9340/9480/11590/11675/12110
12.00-13.00	III	11650/15095/17735
13.00-14.00	I	1340/9290/9340/9480/11590/11675/12110
14.00-15.00	VIII	7315/9860/11740/15095
15.00-16.00	VIII	7315/9860/11740/15095
16.00-17.00	VI	4035/7315/9860+25m.b.(Ea.+So. Africa)
17.00-18.00	VI	4035/7315/9860+25m.b.(Ea.+So. Africa)
18.00-19.00	VIII	1210
19.30-20.30	VI	9340/11695+30m.b.(We.+No.Africa)
20.30-21.30	VI	9340/11695+30m.b.(We.+No.Africa)
20.30-21.30	VII	6290/6610/7075/9800/11675
21.30-22.30	VII	6290/6610/7075/9800/11675
Amoy		
12.00-13.00	I	9490/9860/12010/15060
13.00-14.00	I	9490+25/19m.b.
23.30-24.00	I	12055/15060+31m.b.
Arabic		
16.30-17.30	II	40/31/25/19m.b.
18.30-19.30	II	40/31/25m.b.
19.30-20.30	II	6620/6645+40/31m.b.
Burmese		
00.30-01.00	I	31/25/19m.b.
11.30-12.00	I	11980/15030+31m.b.
13.00-13.30	I	1190
14.00-14.30	I	42/31/25/19m.b.
14.30-15.00	I	1190
Cambodian		
10.30-11.00	I	9457/15030+25m.b.
12.00-13.00	I	1300/8245/9457/11980/15030
14.30-15.00	I	12055/15030+42/31m.b.
Cantonese		
01.00-02.00	III	11100/11695/11945/12010/15095/15200/17715
03.00-04.00	IV	11690/12010/15080/15150/15355/17735
10.00-11.00	V	7150/11690/12010/12110/15080+30m.b.
11.00-12.00	I	7150/9490/7620/12010/12110/15080/15255
17.00-18.00	VI	15060+42/30/25m.b.
23.00-23.30	I	6590/7035/7335/9945/11720/11820/11980/15030
Chaochow		
00.30-01.00	I	12010/15080
14.00-15.00	I	41/31/25m.b.
Czech		
19.00-19.30	VII	9457/11445(Tues, Fri & Sun only)
French		
06.00-08.00	VII	15200
18.30-19.30	VI	6325/6825/7025/7315/9340/9920/11610/11965/15060/15095
19.30-20.30	VI	6325/6825/7025/9365/9920/15095+25m.b.
20.30-21.30	VII	6325/6825/7010/7055/9920/11610/11965/15095
21.30-22.30	VII	6325/6825/7010/7055/9340/9365/9920/11690/15095
German		
18.00-19.00	VII	6290/7005/7075/9972/15030+32/25m.b.
20.00-21.00	VII	6890/7005/9972/12065+32m.b.
Hakka	**Areas**	**kHz/m.b.**
00.00-00.30	I	15080+25/31m.b.
10.00-11.00	I	7080/9860/15255+25m.b.
17.00-18.00	VIII	1190
Hausa		
19.00-19.30	VI	31/24/19m.b.
21.00-21.30	VI	15030+31/24m.b.
Hindi		
15.00-16.00	VIII	1190/11690/15060+42/30m.b.
16.00-17.00	VIII	11690/15060+42/30m.b.
Indonesian		
05.00-05.30	I	15060/15080
08.30-09.00	I	11820/15080
09.00-10.00	I	11740/11820/12055/15030/15080/15095
10.30-11.30	I	5525/8245/9920/11590/11720/12055/15060/15095
12.00-12.30	I	5545/9635/15080+25m.b.
13.00-13.30	I	5545/9945/11945/15080
14.00-14.30	I	5545/11590/12055+30m.b.
22.00-22.30	I	8245
23.30-24.00	I	8245/11720/15080+31m.b.
Italian		
19.00-19.30	VII	41/31/25m.b.
20.00-20.30	VII	41/31/25m.b.
21.00-21.30	VII	7005/7720/9860/12110
Japanese		
09.30-15.30	IX	1040/3960/4960/6955/7480/9965
21.30-22.00	IX	1040/3960/4960
Korean		
09.00-10.00	IX	1020/4020/5975
10.00-12.00	IX	1020/4020/5975+41m.b.
12.00-12.30	IX	1020/4020/5975/7150
13.30-14.00	IX	1020/4020/5975+41m.b.
Laotian		
00.00-01.00	I	11860+31/19m.b.
11.00-11.30	I	1190/1300/11980/15080+31m.b.
13.00-14.00	I	11980+42/31m.b.
14.30-15.00	I	1300
Malay		
10.00-10.30	I	12055/15095
13.00-14.00	I	41/31/25/19m.b.
14.30-15.00	I	41/31/25/19m.b.
Persian		
15.30-16.00	II	40/31/25m.b.
18.00-18.30	II	40/31/25m.b.
Polish		
19.00-19.30	VII	9457/11445(Wed and Sat only)
Portuguese		
00.00-01.00	X	6550/9457/9860/11690/12055
19.00-20.00	VI	42/31/25/19m.b.
20.00-21.00	VII	6410+41/31/25m.b.
22.00-23.00	X	6550/9457/9860/12055/**7315**
Rumanian		
19.00-19.30	VII	9457/11445(Mon and Thurs only)
Russian		
01.00-02.00	XI	12110
03.00-03.30	XI	12110/15405
03.30-04.30	XI	12110/15200/15405
04.30-05.00	XI	12110/15405
06.00-08.30	XI	15060
09.00-10.00	XI	11945/15500
10.00-11.00	XI	5860/6025/6290/7035/7380/7620/9380/9490/9945/11445/11650/11790/12080/11945/15500
11.00-12.00	XI	5860/6025/7380/7620/9380/9480/9945/11445/11650/11945/15500
12.00-13.00	XI	1526/7035/7380+30/25m.b.
13.00-15.00	XI	1526
15.00-18.00	XI	1526/5145/5860/6590/7035/7335/7620/7820/9365+33m.b.
18.00-20.00	XI	1526/5145/5860/6225/6590/7035/7335/7620/7820/9365/11290+33m.b.
20.00-21.30	XI	1526
21.30-22.30	XI	1526/5145/5860/6590/6645/6995/7035/7620/7820/9380+30m.b.
22.30-23.30	XI	1526/6290/6610/6645/6955/11690/12010+31m.b.
17.00-23.30		also on 4110/4220/4500(Urumchi, Sikiang sta.)
Serbo-Croat		
19.30-20.00	VII	9860/12055+48/42m.b.
21.30-22.00	VII	6560/6890/9860/12055
Spanish		
23.00-24.00	XII	6550/9340/9457/11445/11600/12110/15060/15095/15200/17745/17795/21480/21600 and **7120/11855**
00.00-01.00	XII	9340/11445/11600/12110/15095/15200/17745/17795/21480/21600 and **7120/9507**
01.00-02.00	XIII	6550/9340/11600/11775/11820/15080/15380/17745/17855/21480/21600

Spanish	Areas	kHz/m.b.
02.00-03.00	XIII	6550/9340/11445/11600/11775/11820/15080/15380/17745/17855/21480/21600 and **7120/9507**
20.30-21.30	VII	6560+41/31m.b.
Standard Chinese		
02.00-03.00	III	11100/11695/11945/12010/15095/15200/17715
04.00-05.00	IV	11690/12010/15080/15150/15355/17735
09.00-10.00	V	12010/15255+31m.b.
13.00-14.00	I	12010/15060+42/31m.b.
15.00-16.00	VIII	42/31/25m.b.
17.30-18.30	VI	42/31/25m.b.
20.00-21.00	VII	42/40/31/25m.b.
22.30-23.00	I	6590/7035/7335/7620/9457/11820/11980
Swahili		
16.00-16.30	VI	41/31/25/19m.b.
17.00-17.30	VI	41/31/25/19m.b.
Tagalog		
09.30-10.00	I	15115+25m.b.
12.00-12.30	I	7060+31m.b.
Tamil		
14.30-15.00	VIII	42/31/25m.b.
16.30-17.00	VIII	42/31/25m.b.
Thai		
11.30-12.00	I	1190/9457/15080+25m.b.
13.30-14.30	I	1190/9457/15080+42/25m.b.
23.30-00.30	I	1190/12010+31m.b.
Turkish		
17.30-18.00	II	11690+40/31m.b.
19.30-20.00	II	40/31/25m.b.
Vietnamese		
11.30-12.00	I	1300/5545/8245/9945/11720/15095
12.30-13.00	I	8245/9945/12055
13.00-13.30	I	1300/12055/15030+31m.b.
13.30-14.30	I	1300/8245/9945/11720/15030+42m.b.
15.00-15.30	I	9340/15080+42/25m.b.
22.30-23.30	I	1190/1300/6890/7060+30/25m.b.

ANN: E: "This is Radio Peking". F: "Ici Radio Peking". G: "Hier ist Radio Peking". P: "Aqui Pequim". R: "Govorit Pekin". Sp: "Aqui Pekin".

LOCAL & PROVINCIAL STATIONS

City, Province	kHz
Amoy, Fukien	1115
Amoy, Foochow area	590, 685, 750,1090, 1198,1295, 1480,1510 (all carry HS prgr: to Taiwan)
Anhwei Province	1175
Anking, Anhwei	1440
Anshan, Liaoning	950
Antung, Liaoning	890,1400
Canton, Kwangtung local	790, 890, 1400
provincial	1060,1340
Changchih, Shansi	1490
Changchow, Fukien	1210
Changchow, Kiangsu	1520
Changchun, Kirin local	1330,1450
provincial	585
Changkiakow, Hopeh	780
Changsha, Hunan local	1568
provincial	1230,**4990**
Changte, Hunan	1570
Changyeh, Kansu	1490
Chengchou, Honan provincial	1420
Chengteh	850
Chengtu, Szechwan local	750
provincial	1220,**3245, 5933**
Chiamussu, Heilungkiang	670,1590
Chiaotso	1560
Chifeng, Inner Mongolia	1580,**3930**
Chihsi	1530
Chinchow, Liaoning	910,1410
Chingtechen	1482
Chining	1540
Chinwangtao, Hopeh	1050,1370
Chiuchiang	1560
Chuchow, Chekiang	1400
Chungking, Szechwan	1095,1310
Foochow, Fukien provincial	580, 880, 1330,1430, **2200,2340, 4975,7165**
Fouhsin	1470,1590
Fukien area	820, 860, 930, 950, 1010,1020, 1310,1540, **2430,2600, 2800,3200, 3400,3535, 3900,4380, 5170,5240, 5900,6398, 8195**
Fukien province	1050
Fushun, Liaoning	850,1520
Haikou, Hainan Isl. Kwantung	950
Hailar, Inner Mongolia (B)	1430,**3900, 6080**
Hanchung, Shensi	1350
Hangchow, Chekiang local	1350
provincial	810,**2475**
Hantan, Hopeh	1370
Haokang	1410
Harbin, Heilungkiang local	660, 967
provincial	272, 620 840,1105, 1110,1115, 1120,1690, **2690**
Hengyang, Hunan	1350
Hofei, Anhwei local	1270
provincial	940,1490
Hotso, Tibet	1330
Hsiangtan, Hunan	1500
Hsinhsiang	1050
Hsinyang, Honan	920
Hsuchow, Honan	1450
Huainan	1570
Huhehot, Inner Mongolia (A)	1460,**4069, 6975**
(B)	675,1510, **3970,4750, 5990,6840**
local	1580,**3930**
Hwaiyin	1530
Hwangshih, Hupeh	1480
Ichun, Kiangsi	910
Kaifeng, Honan	930
Kanchou, Kiangsi	1270
Kiangsu Province	1350
Kirin	930,1490
Kirin Province	1130
Kueilin, Kwangsi	1450
Kunming, Yunnan provincial	820,1380, **4785,6937, 9990**
Kweiyang, Kweichow provincial	620,1030, **3260**
Lanchow, Kansu local	1400,**7883**
provincial	860,**3365, 6155,7323**
Lhasa, Tibet provincial	590,**4035, 5935,9490, 11990** (inactive)
Liaoyuan, Liaoning	1290
Lienyunchiang, Kiangsu	1348
Liuchow, Kwangsi	1330
Luta, Liaoning local	690
provincial	830
Mutankiang	680
Nanchang, Kiangsi local	1310
provincial	835
Nanking, Kiansu local	820, 870
provincial	700
Nanning, Kwangsi local	1370
provincial	635,1320, **5010**
Nantung, Kiangsu	1440
Nanyang, Honan	1360
Ningpo, Chekiang	890,1470
Paicheng, Sinkiang	1320
Paoki, Shensi	1310
Paoting, Hopeh provincial	1470
Paotow, Inner Mongolia local	670,1490
Penki, Liaoning	1050,1300
Pingliang, Kansu	1110,1210, 1550
Pingingshan, Shansi	1590
Shanghai	795, 990, 1300,1500
Shantung Province	970,1360
Shaoyang, Hunan	1390
Shasi, Hupeh	1450
Shenyang, Liaoning local	690, 790, **1440**
provincial	218, 1090
Shichiachung, Hopeh	1250
Shunangyashan	1100
Sian, Shensi local	690, 1370, 1490
provincial	960,**6176**
Silinhot	1330, **4525**,
Sinhailien, Kiangsu	1345
Sining, Chinghai local	1450
provincial	800,1250, **3950,6260, 6500,9498**
Soochow, Kiangsu	1330
Ssuping	1130
Swatow, Kwantung	970
Taiyuan, Shansi local	1530
provincial	1125
Tangshan, Hopeh local	810
provincial	1440
Tatung, Anhwei	1370
Tengkou (Bayinor)	1270,**4000**
Tienshui	1270
Tientsin, Hopeh local	790, 870, 920,1070, 1390,1440, 1520
provincial	1280
Tinghai, Chowshan Isl. Chekiang	680
Tsinan, Shantung local	1310
provincial	920,1270, **2350**
Tsingtao, Shantung	850,1380
Tsitsihar, Heilungkiang	740, 850
Tsukung	1490
Tsunyi, Kweichow	1370
Tungchuan	1050,1290
Tunghua, Kirin	910
Tungliano, Inner Mongolia local	1350
Tungsheng	1360

City, Province	kHz
Tuyun, Kweichow	1490
Ulan Hot, Inner Mongolia	
(A)	1380
(B)	1510,**4000**
Urumchi, Sinkiang	
(A)	560, 810, 850, 880, 890, 950, 970, 990, **3238,3960, 4220,4500, 5440,5800**
(B)	630, 680, 700, 740, 870,**3350, 4110,5355, 7385**
(C)	950, 970, 990,**3960, 4500**
Wenchow, Chekiang	1375,1570, **2415**
Wuchou, Kwangsi	1410
Wuhan, Hupeh	
local	1110,1375, 1590
provincial	770,**4980**
Wuhsi, Kiansu	1400
Wuhu, Anhwei	
local	1590
provincial	1490
Yangchow	1370
Yangchuan, Shansi	1590
Yenchi/ Yongil, Kirin	1050
Yentai, Shantung	1450
Yinchuan, Ninghsia provincial	1130,1290
Yingkow, Liaoning	1030

CHINA (Rep. of) (Taiwan)

L.T: GMT+8h (Su: GMT+9h) — **Pr.L:** Chinese. **E.C:** a/c 60 (yes).

BROADCASTING CORPORATION OF CHINA
(Priv. enterprise under Gov. contract).
ADDR: 53 Jen Ai Road, Taipei. **Te:** 770151. **Cable:** "Broadcast".
L.P: Pres: Lee Shih-feng. Dir. Eng. Dep: H. Y. Ong.
STATION: Medium Waves (0.1/0.5/3.5/10/20/100/150kW):

Call	kHz	Call	kHz	Call	kHz
BED34	660	BED43	1060	BED23	1380
BED58	720	BED57	1070	BED87	1390
BED2	750	BED97	1100	BED65	1400
BED92	780	BED72	1120	BED54	1410
BED28	820	BED68	1150	BED80	1410
BED25	860	BED86	1160	BED67	1410
BED27	860	BED89	1160	BED48	1450
BED24	890	BED88	1170	BED82	1460
BED85	890	BED32	1190	BED81	1470
BED96	900	BED50	1200	BED29	1470
BED55	960	BED79	1220	BED83	1500
BED62	1000	BED47	1280	BED64	1500
BED53	1020	BED63	1350	BED78	1540
BED26	1040			BED77	1600

Short Waves (G.C: 121.24E/25.09N): 1/1.5/3/3.5/7.5/10/25/35/100kW.

Call	kHz	m	Call	kHz	m
BED59	3215	91.31	BED66	9765	30.72
BED31	3230	92.88	BED75	11725	25.59
BED20	3335	89.96	BED69	11825	25.37
BED30	5980	50.17	BED45	11860	25.30
BED9	6040	49.67	BED44	11905	25.20
BED7	7130	42.08	BED90	11970	25.13
BED35	7150	41.96	BED37	11970	25.06
BED70	7185	41.75	BED60	15125	19.83
BED21	7250	41.38	BED36	15280	19.63
BED91	9575	31.33	BED38	15320	19.58
BED33	9630	31.15	BED49	15345	19.55
BED91	9655	31.07	BED93	15370	19.52
BED42	9660	31.06	BED39	17720	16.93
BED73	9685	30.98	BED95	17780	16.88
BED22	9690	30.96	BED40	17890	16.77

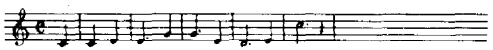
FM: BED3/4/5/: 103.1/102.1/103.1/102.1MHz 0.25kW.
HOME SCE. in Chinese:
1st Netw: 660kHz 24 hrs — **2nd Netw:** 20.55-16.30.
3rd Netw: 890kHz 21.00-01.00, 04.00-15.00.

INTERNATIONAL SERVICE

English	kHz	Japanese	kHz
02.00-03.50	890*,11825† 7130,15125, 15345,17720, 15345,17720, 17780,17890‡	08.50-09.50	7130,9685, 11825,11860, 15370
18.00-19.00	9685,9765, 11825,15125, 15370,17720, 17890§	**Korean**	**kHz**
		09.50-10.20	7130,9685, 11825,11860, 15370
		23.30-24.00	9685,11825°

Indonesian	kHz	Chinese	kHz
10.30-11.30	7130,9575, 9685,11825, 15370,17890	04.30-05.30b 05.30-06.30c	15125,15345, 17720,17780, 17890
Thai	**kHz**	06.30-07.00b	7120,11825, 15125,15345, 17720,17780, 17890
11.30-12.00	7130,9685, 11825,15370, 17890		
Vietnamese	**kHz**	07.00-07.30e	7130,15125, 17720,17780
12.00-12.30	7130,9685, 11825,15370, 17890	12.30-13.00e 13.00-13.30a	7130,9685, 11825,15370, 17890
French	**kHz**		
17.00-18.00	9685,9765, 11825,15125, 15370,17720, 17890	13.30-14.00b	9685,11825, 15370,17890
		13.30-14.00c	7130
		14.00-15.00d	890*,7130, 9685,11825, 15370,17890,
Chinese	**kHz**		
04.00-04.30a	7130,9575, 11825,15125, 15345,17720, 17780,17890	15.10-16.10c	7130,9685, 9765,11825, 15125,15370, 17720,17890
04.30-05.30b 05.30-06.30c	9575,11825, 890*,7130,	21.00-23.00c	11825,15345†

*) to Hong Kong/Macao; †) to Australia/New Zealand; ‡) to North America/Japan; §) to Africa/West Eürope/Middle East; °) rel. by BBC from KBS to Vietnam — a) Amoy — b) Hakka — c) Mandarin — d) Cantonese — e) Chauchow.
N: English 02.00, 02.30, 02.55, 03.20, 18.00, 18.30. **French:** 17.00. **Japanese** 08.50. **Korean** 09.50. **Indonesian:** 10.30, 11.00. **Thai:** 11.30. **Vietnamese** 12.00.
ANN: Domestic Sce: "This is BCC the 1st (2nd, 3rd netw.) (in Chinese)". International Sce: "This is the Voice of Free China (A call of Freedom in Asia)".
INT-SIG:



V. by letter or QSL-card. Re. in English and Chinese. Rec. acc. — **PUB:** Prgr. sched. free — **ALF:** NT $30.00.

Listen to
Voice of Free China
International Service
BROADCASTING
CORPORATION OF CHINA
Tapei, Taiwan, Republic of China

1. Frequencies:

890 KHz	11860 KHz
7130 KHz	15125 KHz
9575 KHz	15345 KHz
9685 KHz	17720 KHz
9765 KHz	17780 KHz
11825 KHz	17890 KHz

2. F.M. Program Frequencies:
103.1 MHz
102.1 MHz

3. T.V. Program Frequencies:
Channel 3 186-192 MHz
Channel 4 192-198 MHz

DEPARTMENT OF POSTS AND TELECOMMUNICATIONS

Ministry of Communications is a gov. authority responsible for determining power, frequency and supervising operation of all gov. and priv. radio and TV stations. **ADDR:** No. 2, Sec. 1, Changsha Street, Taipei. **Te:** 23901-523.

THE VOICE OF RIGHTEOUSNESS (Cheng Sheng Broadc. Corpo.)

ADDR: 433 Chungking North Rd, Sec. 3, Taipei. **Te:** 48281.

Call	kHz	kW	Call	kHz	kW
1)BEC34	820	1	4)BEV36	1130	1
2)BEC35	1340	1	5)BEV72	930	1
3)BEV58	1230	1	6)BEV60	1020	1
3)BEV59	850	1	7)BEV37	1270	1

1) Cheng Sheng, The First Dept, Taipei — 2) Cheng Cheng, The Second Dept, Taipei — 3) BEV58: The Farmers Broadc. St, First Dept, Taichung; BEV59: The Farmers Broadc. St, Second Dept, Taichung — 4) Yun Lin Broadc. St, Yun-Lin — 5) Kung Yi Broadc. St, Chiayi — 6) Cheng Yen Broadc. St, Kaohsiung — 7) Cheng Tung St, Taitung.

HOME SCE: 21.00-18.00. **N:** Mandarin: Every h on the h.

SCE. to Chinese Mainland in Mandarin, Tibetan, Cantonese: 20.55-24.00, 11.00-1740.

STATIONS (G.C: 121.31E/25.03N): BEC78 620kHz 5kW. BEC77 5995kHz 50.04m 3kW — BEC76 7200kHz 41.67m 10kW.

V. by letter. Re, in Chinese or English. Recordings accepted.

CHINA YOUTH BROADCASTING STATION (Gov.)

ADDR: 131, Don Hua Road, Taipei. **Te:** 49465.

STATIONS: BEG22 1150kHz 3kW, BEG20 7180kHz 41.78m 0.5kW.

HOME SCE. in Chinese: 19.50-05.00, 08.00-16.00.

ANN: "This is the Voice of Youth" (in Chinese only).

V. by letter.

FU HSING BROADCASTING STATION (Gov.)

ADDR: P.O. Box 799, Taipei. **Te:** 942448 — **L.P:** Dir. Gen: T. Pin-Sun. Dir. Public Rel: H. Kang-Lin.

HOME SCE. in Mandarin Taipei: 20.50-17.10 on 590/1510kHz (BEH46/8), 20.50-17.10 on 910kHz (BEH10). **Taichung:** 20.50-02.05, 02.50-06.05, 08.20-17.05 on 910/1090/1510kHz (BEH32/33/35) — **Kaohsiung:** 20.50-02.05, 02.55-06.05, 08.25-17.05 on 590/910/1090/1510kHz (BEH42/43/44/45) — **Taitung:** 20.50-02.05, 02.50-06.00, 08.20-17.05 on 1510kHz (BEH52) — **Hualien:** 20.50-02.05, 02.55-06.05, 08.25-17.05 on 1090kHz (BEH56) — **Hsinchu:** 20.50-02.05, 02.50-06.05, 08.20-17.10 on 910/1090/1510kHz (BEH62/63/64) — **Ilan:** 20.50-02.05, 02.55-06.00, 08.25-17.00 on 630kHz (BEH53) — **Sun-Moon-Lake:** 20.50-02.05, 02.55-06.00, 08.20-17.10 on 1090kHz (BEH34).

ADDR: 209 Pietwen, Taichung; 195 Fu Hsing 2nd Rd, Kaohsiung; 11 Shengli, Po Ai Rd, Taitung; 111 Peipin Str, Hualien; 526-3 Kuang Fu Rd, Hsinchu; 50 Nu-chung Rd, Ilan — 82 Mingsheng Lane, Sun Moon Lake.

POLICE BROADCASTING NETWORK (Gov.)

ADDR: No. 1, Tientsin St, Taipei. **Te:** 24761.

L.P: Dir. Gen: C. Y. Tuan. Dir. Tec: K. H. Wang.

HOME SCE: 24h.

STATIONS	Call	kHz	m	kW
Taipei	BEP22	1260	238.1	10
	BEP23	5960	50.34	1
Hsinchu	BEP26	1120	267.9	1.5
Changwa	BEP24	680	441.2	10
Kaohsiung	BEP25	1120	267.9	2.5

N: 17.00, 18.00, 20.00, 21.30, 23.30, 00.30, 02.30, 04.30, 05.30, 07.30, 09.30, 11.30, 14.30.

ANN: "This is Police Broadc. St" (in Chinese only).

V. by letter.

MILITARY BROADCASTING STATIONS (Gov.)

ADDR: Military Broadc. Corps, Ministry of National Defence, Taipei. The Military Broadc. Corps. and the Air Force Broadc. St. are two different organizations. The first belongs to the Political Dept. and Ministry of National Defense, the latter to Headquarters of Chinese Air Force. They are without any relationship in their adm. service.

STATIONS:

Call	KHz	m	kW	Call	KHz	m	kW
1)BEC22	1100	272.7	1.5	4)BEC29	1250	240.0	1.5
BEC23	1520	197.4	3	BEC32	690	434.8	1.5
BEC24	**7280**	**41.21**	**1.5**	5)BEC33	1350	222.2	1.5
2)BEC25	700	428.6	3	**BEC34**	**7270**	**41.27**	**1.5**
BEC26	**6090**	**49.26**	**3**	6)BEC35	770	389.6	0.5
3)BEC27	1290	232.6	1.5	BEC36	1330	225.6	1.5
BEC28	**7240**	**41.44**	**1.5**	**BEC37**	**5985**	**50.13**	**1**
				7)BEC38	840	357.1	0.3
				BEC39	1490	201.34	3

1) No. 3 Section 1, Hsinyi Road, Taipei; 22.00-24.00, 03.00-07.00, 09.00-16.00 — 2) Lanyealif, Shyhlin, Taipei: 22.00-03.00, 09.00-17.30 — 3) No. 3, Shyhfun Road, Taichung: 22.00-03.00, 09.00-16.00 — 4) No. 101, Third Jengieng Rd. Kaohsiung — 5) No. 38 Sanmin Str, Hualien: 22.00-24.00,, 03.00-07.00, 09.00-17.00. — 6) No. 40, New Mingdertsuen, Tsoying: 22.00-24.00, 03.00-07.00, 09.00-17.00 — 7) No. 14, Minsheng Rd, Maagong, Penghwa.

CHINESE AIR FORCE BROADCASTING STATION

ADDR: 1st and 2nd Dept: 44, Section 2, Jen Ai Rd, Taipei. **Te:** 28981.

STATIONS:

Call	kHz	m	kW	Call	kHz	m	kW
BEC72	710	422.5	1.5	BEC74	1480	202.7	1
BEC70	980	306.1	3.5	BEC61	6105	49.14	7.5d
BEC73	1430	209.8	10	BEC71	7260	41.32	3.5d
BEC60	1440	208.3	1	BEC62	9745	30.76	3.5d

HOME SCE. in Mandarin: Taipei (main st): 1st Dept: On 1440kHz: 21.00-02.00, 03.55-08.00, 09.55-17.00. English Lesson: 22.30-23.30.

2nd Dept: On 980/6105kHz: 21.00-02.05, 10.55-17.00. **Chingshui** (1430kHz): 20.55-02.20, 10.55-17.10. **Taichung** (1480/9745kHz): 21.25-00.35, 03.35-07.05, 09.55-17.05; English lesson: 22.30-23.30, 10.30-11.30. **Tainan** (710/7260kHz): 21.25-00.35, 03.55-07.05, 09.55-17.05. English lesson: 22.30-23.30, 10.30-11.30.

ANN: "Voice of Chinese Air Force" — **INT-SIG** (2nd Dept.): Sign of Freedom — **V.** by QSL-card.

PUB: Prgr. schedule free on request.

AMERICAN FORCES NETWORK TAIWAN (U.S. Armed Forces)

ADDR: AFNT, Box 25, APO San Francisco, Calif. 96263, USA. **Te:** 88-6428 or GME 146/147 — **L.P:** Officer-in-charge: Lt. O. J. Resweber, Jr. Dir. of Prgrs: J. M. Brooks, GS-12, DNC. Chief Eng: W. Henning, GS-12, DNC.

STATIONS (mw 5kW, sw+FM 1kW): 1560kHz 192m — 100.1MHz 3990kHz 75.19m — 7215kHz 41.58m (G.C: 121.26E/25.06N). **Relay st's:** Ching Chuan Kang 1580kHz 1kW — Tainan 1590kHz 1kW — **HOME SCE. in English:** 24h (exc. Sun 19.00-19.55) — **N:** Every h on the h. **ANN:** "This is the American Forces Network Taiwan (Taipei, Tainan, Ching Chuan Kang)" — **V.** by QSL-card. Recordings accepted.

HONG KONG (British)

L.T: GMT+8h (Apr-Oct+9h) — **Pr.L:** Chinese.

RADIO HONG KONG (Gov.)

ADDR: Broadcasting House, P.O. Box K-200, Hong Kong. **Te:** K-835371. **Cable:** "Broadcast".

L.P: Dir. of Broadc: D. E. Brooks. Dep. Dir. of Broadc: I. D. Kingsley. Secr: E. A. Fisher, E. D. Chief Eng: R. Winyard. Head, Chinese Sce: N. Y. Chow. Head, English Sce: T. A. Birch.

STATIONS: *) Chinese Sce, †) English Sce.
*640kHz 468.7m 20kW — *94MHz 50kW
†545kHz 550.5m 20kW — †91MHz 50kW

HOME SCE: English: 23.00-16.00 — **N:** 00.00, 05.15, 11.00 (BBC Newsreel), 15.00 — **Wrp:** 23.58, 13.13, 14.58. **Chinese:** 23.00-16.00 — **N:** 00.00, 05.30, 10.00, 12.00‡, 12.30 — **Wrp:** 23.58, 05.28, 11.58, 15.30 — ‡) Rel. Far Eastern St. from London — **ANN: English:** "This is R. Hong Kong". Chinese: "Ni do hai Heung Kong Kwong bor deen toy" — **V.** by QSL-card. Recordings accepted — **EC:** a/c 50 (yes).

HONK KONG COMMERCIAL BROADCASTING CO.
ADDR: P.O. Box 3000, Hong Kong. **Te:** H-236223. **Cable:** Radioads — **L.P:** Man. Dir: G. Ho. Dir. Tec: W. S. Ip.
STATIONS: Cantonese: 610kHz 2kW and 850kHz 2kW. English: 1050kHz 2kW.
HOME SCE (on all freq's): 23.00-16.00.
English: N: 23.00, 00.00, 01.00, 03.00, 04.00, 05.15, 07.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00 — **Wrp:** 23.05, 00.10, 01.02, 03.02, 04.02, 05.25, 07.02, 10.02, 11.02, 12.02, 13.02, 14.02, 15.02, 16.02.
Cantonese: N: 23.00, 00.00, 01.00, 03.00, 04.00, 05.00, 07.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 15.58. **Wrp:** 23.10, 23.30, 00.10, 00.25, 00.45, 01.00, 03.00, 03.15, 05.15, 06.15, 08.00, 10.30, 13.00, 13.30, 14.59, 15.00, 16.00 — **L.L.** (English): W 10.45-11.00.
ANN: E: "Commercial Radio Hong Kong" — **INT-SIG:** Chimes — **V.** by letter. Recordings accepted.

REDIFFUSION (HONG KONG) LTD.
(A subsidiary of Rediff. Ltd, London (Comm.))
ADDR: Television House, 81 Broadc. Drive, Kowloon, Hong Kong. **Te:** K-839291 — **L.P:** Chmn: G. H. Oldridge. Man. Dir: R. J. Warren. Comm. Mgr: J. Sloan. Ag. Chief Eng: Y. Y. Yang — 4 simultaneous wired broadc. netw's. Originating own prgr's, also relay R. Hong Kong, BBC, etc: D 22.00-15.00.

INDIA

L.T: GMT+5½h — **Pr.L:** Hindi, Marathi, Oriya, Bengali, Assamese, Tamil, Telugu, Urdu, Kannada, Kashmiri, Sanskrit, Dogri, Sindhi, Punjabi, Malayalam, English — **EC:** a/c 50+d/c (yes).

ALL INDIA RADIO (Gov.)
ADDR: Directorate General, Akashvani, Bhavan, Parliament St, New Delhi-1. **Te:** 382021. **Cable:** Airgeneral. **L.P:** Dir. Gen: A. K. Sen. Dep. Dir. Gen. (Prgrs.): Miss M. Masani. Dep. Dir. Gen. (Adm): B. Bal. Dep. Dir. Gen. (Commercial): S. N. Murti. Dep. Dir. Gen. (Inspection): P. C. Chatterji. Chief Eng: S. S. Aiyar. Additional Chief Engs: S. Thiruvenkatachari, B. Y. Nerurkar. Dir. of Prgr's: V. Krishnamurti (Policy), Kum. L. Sengupta (Personnel), A. N. Kapur (Plan Publicity), P. Mathur (Comm.), K. P. Rungachary (Development), R. K. Acharya (Emergency), P. N. Dar (Kashmir). Dir. Farm and Home: P. V. Krishnamoorthy. Dir. Listener Research: S. C. Parashar. Dir. News Services: R. K. Chatterjee. Dir. Ext. Services: P. S. Bhatia. Dir. Staff Training (School): Gopal Das (Prgrs.), R. Deo (Techn.). Sen. Eng. (Headquarters): A. G. John. Dir. Freq. Assignment: J. N. Mathur. Dir. Television Centre: Romesh Chander. Dir. Transcription and Programme Exchange Sce: S. K. Bose. Reg. Eng. (North): N. L. Sehdev. Reg. Eng. (South): A. S. Balasubrahmanyam. Reg. Eng. (West): Y. Venkata Ramiah. Reg. Eng. (East): A. Venkateswaren.

STATIONS: Medium Waves:

North Regional	kHz	m
Delhi A	810	370.4
Delhi B	1020	294.1
Delhi C	1370	219.0
Delhi D	1570	191.1
Lucknow A	760	394.7
Lucknow C	910	329.7
Allahabad A	950	315.8
Allahabad B	1420	211.3
Jabalpur	1180	253.0
Patna A	620	483.9
Patna B	1500	200.0
Jullundur A	890	337.1
Jullundur B	710	422.5
Jullundur C	1350	222.2
Jaipur A	1480	202.2
Jaipur B	1270	236.2
Jodhpur	820	365.2
Ajmer	600	500.0
Indore A	650	461.5
Indore B	1590	188.7
Bhopal A	1520	197.4
Bhopal B	1200	250.0
Chandigarh	1220	246.0
Ranchi	560	535.7
Varanasi	1240	241.9
Bikaner	1330	225.6
Kanpur	1440	206.9
Raipur	980	306.1
Gwalior	1390	215.8

North Regional	kHz	m
Rampur	1060	283.0
Bhagalpur	1470	204.1
Mathura	1530	196.1
Udaipur	1170	256.4
West Regional	**kHz**	**m**
Bombay A	1040	288.5
Bombay B	550	545.5
Bombay C	1230	243.9
Nagpur A	590	508.5
Nagpur B	660	454.5
Ahmedabad A	850	352.9
Ahmedabad B	1400	214.3
Parbhani	1300	230.7
Poona A	785	382.2
Poona B	970	309.5
Rajkot A	1070	280.4
Rajkot B	1420	211.3
Panaji (Goa)	880	340.9
Sangli	1250	240.0
Bhuj	1290	232.6
East Regional	**kHz**	**m**
Calcutta A	670	447.8
Calcutta B	1000	300.0
Calcutta C	1320	277.3
Cuttack A	965	310.9
Cuttack B	1350	222.2
Gauhati A	730	411.0
Gauhati B	1030	291.3
Kohima	1490	201.3

East Regional	kHz	m
Sambalpur	860	348.8
Siliguri	1560	192.3
Port Blair	1440	208.3
Imphal	1390	215.8
Jeypore	1450	205.5
Shillong	1200	250.0
Pasighat	1060	283.0
Agartala	1270	236.2
Aijal	920	326.1
Tezu	1330	225.5
Dibrugarh	570	526.3
South Regional	**kHz**	**m**
Madras A	720	416.7
Madras B	1420	211.3
Madras C	1550	193.5
Tiruchi A	940	319.1
Tiruchi B	1480	202.7
Tirunelveli	1200	250.0
Vijaywada A	840	357.1

South Regional	kHz	m
Vijaywada B	1500	200.0
Trivandrum A	660	454.5
Trivandrum B	1140	263.2
Calicut A	680	441.2
Calicut B	1090	275.2
Trichur	580	517.2
Hyderabad A	740	405.4
Hyderabad B	1380	217.4
Hyderabad C	1220	245.9
Bangalore A	610	491.8
Bangalore B	820	365.9
Dharwar A	1360	220.6
Dharwar B	1160	258.6
Vishakhapatnam	930	322.6
Cuddapah	900	333.3
Bhadrawati	800	375.0
Gulbarga	1110	270.3
Pondicherry	750	400.0

Short Waves: Delhi VUD: 10/20/50 100kW. (G.C: 77.12E/28.43M)

kHz	m	kHz	m	kHz	m	kHz	m
3295	91.05	7290	41.15	11790	25.45	15190	19.75
3365	89.15	9530	31.48	11805	25.41	15205	19.73
3905	76.82	9535	31.46	11810	25.40	15235	19.69
3925	76.43	9590	31.28	11850	25.32	15250	19.67
4760	63.03	9600	31.25	11855	25.31	15260	19.66
4860	61.73	9630	31.15	11865	25.28	15275	19.64
4960	60.48	9645	31.10	11875	25.26	15290	19.62
6035	49.71	9675	31.01	11885	25.24	15310	19.60
6040	49.67	9680	30.99	11895	25.22	15335	19.56
6145	48.82	9690	30.96	11910	25.19	15340	19.56
6050	49.59	9695	30.94	11920	25.17	15430	19.44
6190	48.47	9705	30.91	11925	25.16	17705	16.94
7105	42.22	9740	30.80	11960	25.08	17715	16.93
7120	42.11	9765	30.72	15080	19.89	17740	16.91
7125	42.11	9912	30.27	15105	19.86	17760	16.89
7160	41.90	10335	29.03	15125	19.83	17780	16.87
7165	41.87	11620	25.82	15135	19.82	17800	16.85
7195	41.70	11710	25.62	15140	19.82	17820	16.84
7215	41.58	11715	25.61	15145	19.81	17830	16.83
7225	41.52	11720	25.60	15160	19.79	17840	16.82
7235	41.47	11725	25.59	15165	19.78	17845	16.81
7255	41.35	11740	25.55	15170	19.78	21485	13.97
7285	41.18	11765	25.50	15185	19.76	21580	13.90

Lucknow *10kW

kHz	m	kHz	m	kHz	m	kHz	m
3205	93.60	4880	61.48	6170	48.62	7250	41.38

Simla *2.5kW

kHz	m	kHz	m	kHz	m
3223	93.09	4760	63.03	6020	49.83

Bhopal *10kW

kHz	m	kHz	m	kHz	m	kHz	m
3315	90.50	4990	60.12	5990	50.08	7180	41.78

Madras†

kHz	m	kW	kHz	m	kW	kHz	m	kW
4920	60.98	10	9510	31.55	100	9750	30.77	100
6085	49.30	100	9590	31.28	10	15335	19.56	100
7260	41.32	100						

Hyderabad †10kW

kHz	m	kHz	m	kHz	m	kHz	m
4800	62.50	6120	49.02	7140	42.02	9720	30.86

Bombay§

kHz	m	kW	kHz	m	kW	kHz	m	kW
4840	61.98	10	9575	31.33	100	15080	19.89	100
7120	42.13	100	11870	25.27	100	15130	19.83	100
7240	41.44	10	11895	25.22	100	17705	16.94	100
9550	31.41	10						

Calcutta °10kW

kHz	m	kHz	m	kHz	m
4820	62.24	7210	41.61	9530	31.48

Gauhati °10kW

kHz	m	kHz	m	kHz	m	kHz	m
3235	92.74	4775	62.84	5970	50.25	7280	41.21
3375	88.89	4940	60.73	7150	41.96		

Kurseong §10kW

kHz	m	kHz	m	kHz	m
3355	89.42	4895	61.29	7230	41.49

Kohima §2kw

kHz	m	kHz	m	kHz	m
4850	61.86	6065	49.46	7170	41.84

*) No. Reg. Sce; †) So. Reg. Sce; §) West Reg. Sce; °) East Reg. Sce.

HOME SERVICES

NORTH REG. SCE: Delhi A: 00.30-18.30 on 810/3365/6190/7290kHz (sw's variable). **Delhi B:** 02.15-17.30 on 1070/3365/6190/7290kHz (sw's variable). **Delhi C:** 14.15-15.30 on 1370/3905kHz. **Delhi D:** 13.00-15.00 on 1570/

3365/4760kHz (sw's variable). **Lucknow:** 01.00-17.10 on 760/3205/4880/6170/7250kHz (sw's variable). **Simla:** 01.00-16.30 on 3223kHz. **Bhopal:** 01.00-17.10 on 1520/3315/7180/5990kHz (sw's variable).
SOUTH REG. SCE: Madras A: 00.30-17.30 on 720/4920/9590 (sw's variable). **Madras B:** 01.30-17.05 on 1420/4920kHz (sw's variable). **Hyderabad:** 01.00-17.10 on 740/4800/7140/9720kHz (sw's variable).
WEST REG. SCE: Bombay A: 01.30-17.30 on 1040kHz. **Bombay B:** 00.30-17.30 on 550/4840/7240/9550kHz (sw's variable).
EAST REG. SCE: Calcutta A: 00.30-17.30 on 670/4820/7210/9530kHz (sw's variable). **Calcutta B:** 01.00-17.05 on 1130kHz. **Gauhati A:** 00.30-17.05 on 730/3375/4940/5970/7280kHz (sw's variable). **Gauhati B+C:** 01.00-17.10 on 1030/3235/4775/7150kHz (sw's variable). **Kurseong:** 01.25-17.10 on 3355/4895/7230kHz. **Kohima:** 01.00-16.00 on 1490/4850/6065/7170kHz (sw's variable).
HOME NEWS in English (on short waves):
01.10-01.15: On 3365/3905/4960/6035/7105/7125/9530/9645/9740/11875kHz (Delhi).
02.45-03.00: On 6050/6190/7160/7290/9530/9590/9705/11710/11850/15310kHz (Delhi), 4760 (Simla), 5990 (Bhopal), 4920 (Madras), 7140 (Hyderabad), 5970 (Gauhati), 5960 (Jammu), 4860 (Srinagar), 4850 (Kohima).
05.25-05.30: On 7120/9600/9705/11715/11855/15170kHz.
08.00-08.10: On 7120/7290/9600/9705/11715/11910/15105/15185/17740/17840kHz (Delhi), 9590 (Madras), 9720 (Hyderabad), 7170 (Kohima).
10.00-10.05: On 7120/9705/11865/15140/15165kHz.
12.30-12.35: On 6145/7165/9535/11850/15275/15430/17715 kHz (Delhi).
15.30-15.45: On 3295/3925/4760/4860/6145/7125/7195/7285/9575/9765/10335/11855kHz (Delhi), 3223 (Simla), 3315 (Bhopal), 4920 (Madras), 4800 (Hyderabad), 3235 (Gauhati), 3345 (Jammu), 3277 (Srinagar), 3355 (Kurseong), 4850 (Kohima) and 9575 (Bombay 100kW).
17.00-17.05 (Sat 17.30-17.35): On 3295/3925/4760/6145/7195/7285/9765/11855/10335kHz (Delhi).
ALL INDIA VARIETY PRGR. (Vividh Bharati).
Short Wave Sce. (Bombay and Madras 100kW): 01.30-03.00 on 7120kHz (B), 01.30-04.00 on 7260 (M), 08.30-10.15 on 11830 (B), 08.30-11.00 on 9750 (M), 04.45-07.00 on 9510kHz (M), 10.30-12.00 on 11870kHz (B), 13.00-15.00 on 9575kHz (B), 13.00-17.10 (Sat 17.40) on 6085kHz (M).
Urdu Prgr. (from Delhi): 08.30-11.30 on 11790kHz, 15.00-19.00 on 710/3365kHz, 03.00-04.30 on 710kHz.
RADIO KASHMIR:
Srinagar A: 1120kHz, **Srinagar B:** 3277/4860/7270kHz, **Srinagar C:** 1490kHz: 01.15-17.30. **Jammu:** 01.00-03.30, 05.20-09.30, 12.00-17.05 on 990/3345/7160/5960kHz (sw's variable).

EXTERNAL SERVICES

*)=Madras; †)=Bombay; Others New Delhi.

GENERAL SERVICE (for Indians Overseas):

So. East Asia		kHz	Beam	N
23.15-00.15	Hindi	9740/11875	132°	23.20-23.30
00.15-01.00	Tamil	9740/11875	136°	00.20-00.30
11.30-12.30	Tamil	*15335	110°	
East Africa				
03.30-04.15	Hindi			
04.15-04.30	Guj.	15130	224°	04.15-04.30
04.35-04.45	Kon.	†17705	250°	04.30-04.40
15.45-16.15	Swahili	15105/17845	224°/245°	
16.15-17.00	Hindi	†15080	250°	16.20-16.30
17.00-17.45	Guj.	17845	245°	17.00-17.10

EASTERN SERVICE:

Nepal				
01.30-02.15	Nepali	6050	nd	
		7165/9630	102°/102°	02.00-02.10
06.30-07.00	Nepali	9705	nd	
		11715/15185	102°/102°	06.30-06.40
Burma				
00.40-01.15	Burmese	9765/11790	132°/102°	00.41-00.50
11.15-12.15	Burmese	15105/17780	125°/102°	11.16-11.25
Thailand				
11.40-12.00	Thai	17705/21580	132°/102°	11.45-11.55
China				
11.45-12.30	Cantonese	11855/15160	44°/68°	11.46-11.55
12.30-13.15	Kuoyu	11885/15160	44°/68°	12.31-12.40
Bhutan, Sikkim				
03.15-03.30	Tibetan	11925/9705		03.16-03.21
12.30-13.15	Tibetan	9705/11865	102°	12.45-12.55
Indonesia				
08.45-09.45	Indo.	15165/17715	125°/132°	08.46-08.55
East Asia				
11.15-11.30	**French**	17705/21580	132°/102°	11.16-11.25
Ceylon				
12.45-13.15	Sinhala	15275/17715		12.50-12.57

WESTERN SERVICE

Afghanistan		kHz	Beam	N
02.45-03.00	Pushto	7225/9675	nd	02.50-03.00
07.00-07.30	Pushto	11765/15125	334°/nd	07.05-07.10
07.30-08.00	Afghan-Persian	11765/15125	334°/nd	07.35-07.45
14.45-15.30	Pushto	3905	nd	14.50-15.00
Iran				
03.45-04.00	Persian	15190/17830	282°	03.50-04.00
16.15-17.15	Persian	9680/11895	282°	16.16-16.26
West Asia				
05.00-05.30	Arabic	15260/17780	282°	05.05-04.00
17.30-18.30	Arabic	9912/11805	282°	17.45-17.55
18.45-19.30	**French**	9912/11805	282°	18.50-19.00
Urdu				
08.30-11.00	Urdu	11710		
15.00-18.30	Urdu	3365		
Tibetan				
03.15-03.30	Tibetan	9705/11925		
12.30-13.15	Tibetan	9705/11865		

GENERAL OVERSEAS SERVICES in English

Ea. & So. Ea. Asia	kHz	Beam	N
22.45-01.15	11710	125°	23.00-23.10
22.45-00.45	9530	102°	23.00-23.10
00.30-00.45	15235	125°	01.00-01.05
22.45-00.15	7235	65°	
13.30-15.00	11810/15335	125°/132°	13.30-13.40 14.55-15.00
North-East Asia			
22.45-01.15	15340	70°	23.00-23.10
22.45-00.15	11895	65°	23.00-23.10
00.30-01.15	17705	65°	01.00-01.05
10.00-11.00	15105/17800		
	21485	44°/65°	10.00-10.10
Australia/New Zealand			
10.00-11.00	11725/15205	132°/125°	10.00-10.10
	15430/17820	132°/125°	
20.45-22.30	9912/11740	125°/136°	21.00-21.05
Africa (East)			
17.45-19.45	†15080	250°	18.00-18.10
Africa (West & North)			
19.45-20.45	9690/11960	282°	19.00-19.05
Europe			
17.45-22.30	7215	312°	20.00-20.05
17.45-20.30	11620	312°	21.00-21.20
19.45-22.30	9912	320°	22.00-22.10

There will be changes in frequencies from time to time and listeners are advised to listen to announcements which will cover all such changes.
ANN: Home Sce: "This is All India Radio". External Sce: "This is Delhi calling in the External Services of All India Radio".
INT-SIG: All India Radio's signature is a melody of eight seconds' duration repeated with intervals of 10 seconds in between. The instruments used are violin, cello and tampura.

V. by QSL-card — **PUB:** "India Calling" free of charge — prgr. journal in English. Requests for free supply of copies may be made either of the Dir. of External Services of All India Radio, New Delhi, or through the Indian Diplomatic Mission concerned.

INDONESIA

L.T: We. Indonesia: GMT+7h; Ce. Indonesia: GMT+8h; Ea. Indonesia (West Irian): GMT+9h — **Pr.L:** Indonesian — **EC:** a/c 50 (no).

RADIO REPUBLIK INDONESIA (Gov.)
ADDR: P.O. Box 157, Djakarta. **Te:** 49091. **Cable:** RRI — **L.P:** Dir: Abdul Hamid. Dir. of Eng: Ir. H. Sidharto. Dir. of Broadc. Sce's: M. Sani. Dir. of N: R. Sarwoko. Dir. of Gen. Affairs: Kamaluddin S.H. Dir. of Public and International Rel: Moh. Rais Baheramsjah.
STATIONS:

Call	kHz	m	kW	Call	kHz	m	kW
Djakarta	2312	129.8	2.5	YDB3	7175	41.81	50
—	2460	122.0	2.5	—	7200	41.67	1
—	3277	91.55	7.5	YDF6	9585	31.30	50
—	4770	62.89	20	—	9770	30.71	100
YDB4	4805	62.43	50	YDF7	11715	25.61	50
YDF	6045	49.63	120	YDE	11770	25.49	20
—	6105	49.14	100	YDC	15150	19.80	7.5

Call	kHz	m	kW
Bandung			
YDA1	3205	93.60	10
YDA2	2420	124.0	0.25
YDA3	4945	60.67	2.5
Tjirebon			
YDA6	2390	125.5	0.3
—	2390	125.5	1
Purwokerto			
—	3223	93.09	0.15
—	3448	87.00	0.075
Jogjakarta			
YDJ1	5047	59.43	20
YDJ2	7105	42.22	7.5
YDJ3	2350	127.6	1
Surakarta			
YDG3	2448	122.5	1
—	2437	123.1	0.6
YDG4	2437	123.1	10
Semarang			
YDH	2490	120.5	0.1
YDH2	3935	76.24	5
Madium			
YDG6	3286	91.26	1
Surabaja			
YDI1	3975	75.47	10
YDI2	3975	75.47	2
YDI3	2370	126.6	1
Diember			
YDI6	3335	89.95	1
Sumenep			
YDI20	3355	89.42	1
Banda Atjeh			
YDN	2390	125.5	7.5
YDN2	3335	89.96	1
YDN3	4955	60.54	10
Medan			
YDP	5030	59.64	20
YDP3	7240	41.44	7.5
YDP2	3395	88.37	1
Sibolga			
YDM	3241	92.56	1
—	4775	62.84	1
Pakanbaru			
—	3465	86.58	1
8FK24	5955	50.38	10
—	5990	50.08	0.5
Djambi			
YDK6	4775	62.83	7.5
YDK7	3375	88.89	1
Padang			
YDL	2480	120.9	1
YDL2	3960	75.76	10
8FK35	6170	48.62	10
Bukittinggi			
YDM	3232	92.82	0.3
YDM2	4910	61.10	1
Palembang			
YDK2	2427	123.7	1
YDK	4855	61.79	10
Tdj. Pinang			
YDX	4910	61.10	1
Pontianak			
YDW1	3345	89.68	10
YDW	4820	62.24	1

Call	kHz	m	kW
Bandjarmasin			
YDO	3250	92.31	1
YDO2	5970	50.25	10
Samarinda			
YDY	6135	48.90	1
YDY2	3295	91.05	7.5
Palangkaraja			
YDZ7	3325	90.23	1
Makassar			
YDQ	2490	120.5	0.3
YDQ4	4750	63.16	20
YDQ2	9550	31.41	7.5
YDQ3	11785	25.46	1.5
Menado			
YDS2	5990	50.08	10
YDS2	7295	41.12	1
Gorontalo			
YDS6	4900	61.22	1
Denpasar			
YDU2	3945	76.05	1
—	7120	42.13	10
Singaradja			
YDU7	2420	124.0	0.25
Mataram			
YDV5	3223	93.09	1
Kupang			
YDV	4805	62.43	3
—	3385	88.63	0.5
Ambon			
YDR3	3241	92.56	1
YDR2	7140	42.02	10
Djajapura			
8FW34	3325	90.23	10
—	3995	75.09	0.5
8FW33	7190	41.72	10
—	11785	25.46	0.5
Ternate			
YDZ	3915	76.64	0.3
YDZ2	3945	76.05	0.3
Sorong			
8FW20	4872	61.57	10
—	7165	41.87	0.5
Fak Fak			
8FW40	3345	89.68	0.3
Manokwari			
8FW5	3365	89.15	0.5
Biak			
8FW50	3395	88.37	0.5
—	7230	41.49	1
Merauke			
8FW6	3985	75.28	0.25
Bogor			
—	3925	76.43	1
Kendari			
—	3960	75.76	0.8
—	5055	59.35	0.1
Palu			
—	5010	59.88	0.15
Malang			
—	2430	123.5	0.06
Wamena			
—	5040	59.52	0.5

National Prgr. (Djakarta): 23.00-02.00 on 6045, 7175, 11770kHz, 05.00-08.00 on 7175, 11770kHz, 10.00-16.00 on 6045kHz. **N:** 23.30, 10.30.
Metropolitan Prgr: 23.00-08.00 and 10.00-16.00 on 2460 kHz. **English (N):** 00.15-00.30, 05.15-05.45 (Fri 06.15-06.45), 11.30-12.00.
Third/Special Prgr: 23.00-02.00 on 2312kHz, 23.00-01.00 on 3277/4805kHz, 00.00-06.00 on 7220kHz (1kW), 01.00-06.00 on 15150kHz, 05.00-08.00 on 2312kHz, 08.00-16.00 on 3277/4805kHz.
ANN: Nat. Prgr: "Inilah R. Republik Indonesia, Programa Nasional Djakarta". Local Prgr: "Inilah R. Republik Indonesia Djakarta Dengan Siaran Untuk Masjarakat Ibukota Dan Sekitarnja". Special Prgr: "Inilah R. Republik Indonesia Programa Chusus Djakarta". For all N. casts: "Inilah R. Republik Indonesia Dengan Warta-Berita". E: "This is R. Republik Indonesia Djakarta, Metropolitan Prgr" — **V:** Reports to st's to be addressed to Radio Republik Indonesia, Studio (name of city).
Addr's for Reg. st's (Dj-Djalan): Bandung: Dj. Tjiandjur 6 — Tjirebon: Dj. Kedjaksaan 129 — Purwokerto: Purwokerto — Jogiakarta: Djl. Amad Djadjuli 4 — Surakarta: Dj. Marconi 1 — Semarang: Djl. Pandanoran 144 — Madiun: Dj. Raya 52 — Surabaja: Dj. Pemuda 90 — Djember: Dj. Maluku 1 — Denpasar: Dj. Melati —

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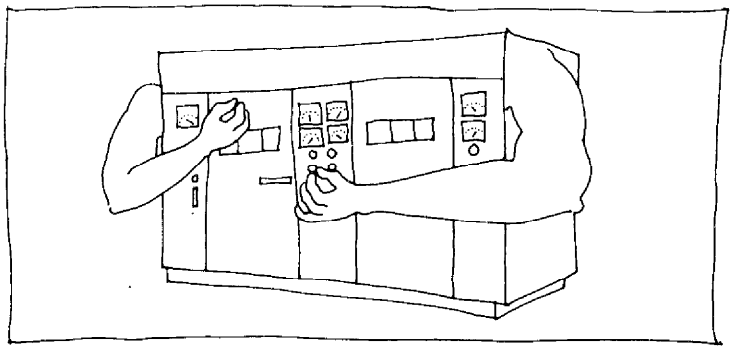

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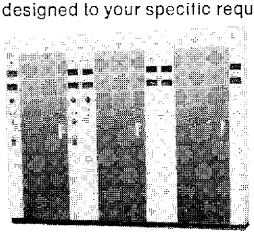

What's more, you'll save maintenance money with RCA AM transmitters. In the long run, the best costs less. For complete information, contact your local authorized RCA Distributor, or the nearest RCA International Marketing subsidiary.

RCA

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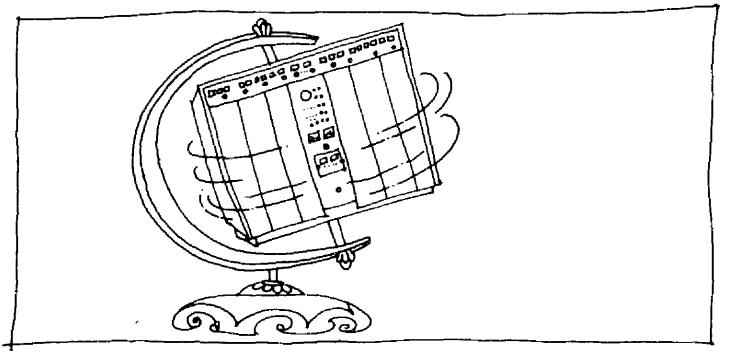
GENEVA, SWITZERLAND, RCA International Marketing S.A., 2-4 rue du Lièvre, 1227 Acacias
HONG KONG, RCA International Ltd., 1927 Prince's Building, Chater Road
NORTH RYDE, N.S.W., AUSTRALIA, RCA Ltd., 11 Khartoum Road
SUNBURY-on-THAMES, MIDDLESEX, ENGLAND, RCA Ltd., Lincoln Way, Windmill Road

non-stop VHF-TV

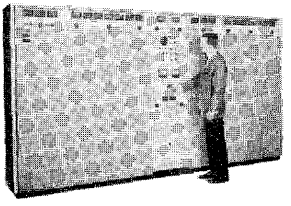


It costs less than the other kind.

Choose an RCA VHF-TV parallel transmitter—from 10-kW to 30-kW—and you'll find out why. You'll get two of the finest transmitters of their kind—completely independent, but working in parallel in a single space-saving unit. You'll be sure of continuous operation. And you'll save money. Here's why:

RCA "twin VHFs" cost less to buy (and run) than two separate transmitters of comparable power. You get a fail-safe system. Should one transmitter ever go off, the other one goes on—instantly, *automatically*. Power costs can be reduced as much as 25%, as compared to conventional transmitters; PA tube costs, as much as 30%. And you'll reduce maintenance costs due to faster troubleshooting, and a smaller spare parts inventory.

RCA non-stop VHF-TV. The best for less. For complete information, contact your local authorized RCA Distributor, or the nearest RCA International Marketing subsidiary.



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Sumenep: Dj. Kalianget — Singaradja: Singaradja — Mataram: Dj. Selaparang-Ampenan — Kupang: Dj. Tom Pello — Banda Atieh: Banda Atieh — Medan: Dj. Bulan 5 — Sibolga: Dj. Barus 28 — Pakanbaru: Dj. Siak 13 — Djambi: Djambi — Padang: Dj. Djend. Suidirman 12 — Bukittinggi: Dj. Dr. Rivai 22 — Palambang: Dj. Merdeka 2 — Pinang: Dj. Diponegoro 579 — Pontianak: Dj. Parwira 7 — Bandjarmasin: Dj. Sudimara 6 — Samarinda: Dj. Pemandian 534/35 — Palangkaraya: Palangkaraya — Makassar: Dj. Riburane 2 — Menado: Menado — Gorontalo: Gorontalo — Ambon: Dj. Djenderal Achmadjani — Ternate: Dj. Kedaton — Sukarnopura: Sukarnopura — Sorong: Sorong — Fak Fak: Fak Fak — Biak: Biak — Merauke: Merauke.

FOREIGN SERVICE

STATIONS: Djakarta (G.C: 106.50E/06.12S).

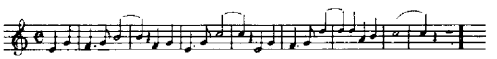
kHz	m	kW	Call-Sign	kHz	m	kW	Call-Sign
6105	49.14	100	8FB63	11715	25.61	100	8FC2
9585	31.30	50	8FB92	11770	25.49	20	8FC22

I=Malaysia/Singapore; II=America/So. Ea. Asia/Asia; III=Australia/New Zealand/Pacific; IV=Ea. and So. Ea. Asia; V=So. Ea. Asia; VI=So. Asia; VII=So. Asia/Africa/So. Ea. Asia; VIII=Mid East; IX=Europe/Mid East/Africa; X=Europe/Mid East; XI=Europe/New Zealand.

Arabic	Area	kHz
13.00-14.00	V	6105,9585
16.15-17.00	VIII	9585,11715
Chinese		
00.30-01.00	I	6105,9585
08.00-08.30	I	11770
12.00-13.00	IV	6105,9585
English		
23.30-24.00	I	6105,9585
09.00-09.30	I	11770
11.00-12.00	III	6105,9585
14.30-15.30	II	6105,9585
19.00-20.00	XI	9585,11715

French	Area	kHz
17.00-18.00	IX	9585,11715
Hindi		
15.30-16.00	VII	6105,9585
Indonesian		
01.00-02.30	II	6105,9585
18.00-19.00	X	9585,11715
Malay		
00.00-00.30	I	6105,9585
08.30-09.00	I	11770
Urdu		
14.00-14.30	VI	6105,9585

N. in English: 23.32, 09.02, 11.02, 14.32, 19.02.
ANN: E: "This is the Voice of Indonesia broadc. from Djakarta". F: "Ici Djakarta, la voix de l'Indonesie".
INT-SIG: Rajuan Pulau Kelepa (the song of the Coconut Islands played on Hammond organ, Flute, Vibe and Piano).



V. by QSL-card or letter. Listeners rep's are welcome.
PUB: Weekly: R.R.I. Radio dan Televisi (home prgr.). Write to "Voice of Indonesia". RRI, P.O. Box 157, Djakarta.

RADIO ANGKATAN UDARA (Air Force Radio)
ADDR: 51 Djalan Tjipinang, Tjempedak I, Polonia Djatinegara, Djakarta.
STATIONS: 2475kHz 121.2m 0.5kW — 3365kHz 89.04m 2.5kW — 11940kHz 25.13m 7.5kW.
D.PRGR's: 04.30-07.30, 09.30-13.30. **"Contact with Overseas Listeners":** 1st Mon of the month at 12.00-12.30.
V. by letter. Reports in Indonesian or English wanted.

IRAN

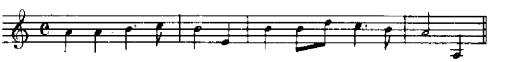
L.T: GMT+3½h — **Pr.L:** Farsi — **EC:** a/c 50 (yes).

MINISTRY OF INFORMATION (Gov.)
ADDR: Ministry of Information, Meidan Ark, Tehran. **Te:** 55161. **Telex:** 2077. **Cable:** Varatel — **L.P:** Minister of Inf: H. E. J. Mansoor. Gen. Tech. Dir: Eng. E. Kianpour. Supervisor of R. Iran: E. Golesorkhi.
STATIONS:

kHz	m	kW	kHz	m	kW	kHz	m	kW
580	517.2	50	7064	42.46	100	15135	19.82	100
1325	226.5	100	11730	25.58	100	17735	16.92	100
3998	75.03	100						

HOME SCE: R. Iran (First Prgr): 24h on 580/3998/7064 kHz (also on 11730kHz to 19.30).
N. in Farsi: 21.30, 22.30, 23.30, 00.30, 01.30, 02.30, 03.30, 04.30, 05.30, 06.30, 08.20, 09.30, 10.30, 11.00, 12.30, 13.30, 14.30, 15.30, 16.30, 17.30, 19.30, 20.30.
R. Tehran (Second Prgr): 02.30-04.30, 06.30-09.30, 13.30-19.30 on 1325kHz+98MHz. **Third Prgr.** (FM Stereo): 17.30-21.00 on 90MHz.
FOREIGN SCE: To Europe: 17.30-19.30 on 15135/17735 kHz, 19.30-21.30 on 11730/15135kHz.
17.30 Russian, 18.00 Turkish, 18.30 Arabic, 19.00 German, 19.30 French, 20.00 English, 20.30-21.30 Special Prgr. for Iranians Abroad.

REGIONAL STATIONS
R. TABRIZ: On 650/6155kHz (100/7.5kW): 02.20-20.30. **Armenian:** 18.00-18.30.
R. REZAIEH: On 976/6940kHz (1/0.5kW): 03.00-19.30. **Assirian:** 16.00-16.30. **Turkish:** 15.00-16.00.
R. ISFAHAN. On 1100kHz (10kW): 06.25-11.30, 14.30-19.30.
R. ZAHEDAN: On 777kHz (100kW): 02.15-20.30. **Baluchi:** 14.30-15.15. **Urdu:** 15.30-18.29.
R. SANANDAJ: On 1475/6818kHz (1/0.4kW): 03.45-05.30, 11.15-17.30.
R. KERMANSHAH: On 985kHz (100kW): 02.15-20.30. **Kurdish:** 14.30-18.00. **Arabic:** 18.30-19.30.
R. GORGAN: On 1426/6520kHz (1/0.4kW): 07.25-09.30, 12.15-17.30.
R. SHIRAZ: On 1050kHz (10kW): 04.30-11.30, 12.25-19.30.
R. RASHT: On 680kHz (100kW): 02.30-20.30.
R. KERMAN: On 1090kHz (1kW): 06.25-11.30, 13.30-17.30.
R. MASHAD: On 720kHz (10kW): 02.30-11.30, 12.30-20.30.
R. AHWAZ: On 1390kHz (100kW): 23.30-21.30. **Arabic:** 15.30-21.30.
R. BANDAR ABASS: On 1250kHz (1kW): 21.30-04.30, 14.30-18.30.
ANN: E: "This is Tehran R. Iran". F: "Ici Tehran, R. Iran". Turkish: "Burasi Tehran, Iran Radyosu". Russian: "Govorit Tegeran, R. Iran". Farsi: "Inja Tehran ast, R. Iran". Urdu: "R. Iran-Zahedan". Kurdish: "Dani Irana. Bashi Kurdi". Arabic: Huna al Ahwaz, Der'el Isa'a al Iraniya". Baloochy: "Ada Zahedan, R. Iran". Armenian: "Tavrizne khosoom". Assirian: "Lakha Rezaieh, R. Azerbayjan Ma'arvesta".
INT-SIG: Iranian melody played on vibraphone. Beginning of the "Mahoor" one of the seven sets of Iranian music.



V. by QSL-card. Rp. Recordings accepted — **PUB:** "Iran Today" (quarterly magazine) in E. F. G. "Facts about Iran" (weekly bulletin) in E. F. Arabic — **AD:** Allowed, income goes straight to the Treasury.

IRAQ

L.T: GMT+3h — **Pr.L:** Arabic, Kurdish, Turkuman. **EC:** a/c 50 (yes).

BROADCASTING STATION OF THE REPUBLIC OF IRAQ
ADDR: Directorate Gen. of Broadc. and Television, Salihiya, Baghdad. **Te:** 31151. **Cable:** Broadcasts.
L.P: Dir. Gen: M. S. Alsahaf.
STATIONS (G.C: sw-tr's: 44.35E/33.09N).

kHz	m	kW	kHz	m	kW
764	392.6	150/300	6155	48.74	50
908	330.0	200	7180	41.78	100
1350	222.2	20	7240	41.44	100
3240	92.59	50	9555	31.40	50
3960	75.76	50	11785	25.46	50
6030	49.75	100	15400	19.48	50
6095	49.22	100			

HOME SCE: Arabic: 02.30-06.00 on 764/6155/7180kHz, 06.00-08.00 on 764/6155kHz, 08.00-10.00 on 908kHz 10.00-10.30 on 908/6095/7180kHz, 10.30-12.00 on 908/6095/7180/15400kHz, 12.00-12.30 on 908/6095/7180kHz, 12.30-13.00 on 908/6155/6095/7180kHz, 13.00-17.30 on 764/908/6095/6155/7180/9555kHz, 17.30-22.30 on 764/908/6155/7180/9555kHz.
Kurdish, Turkuman: 02.30-08.00 on 1350/3240/6030kHz, 10.00-17.30 on 1350/3240/6030kHz. **Voice of Baghdad:** 19.30-21.00 on 1350/3960kHz.
FOREIGN SCE:
To Near- and Middle-East: 17.30-19.30.
Urdu: 14.00-15.00 on 11785kHz. **Persian** (Farsi): 17.30-18.30 on 1350/3240/6030kHz. **Russian:** 18.30-19.30 on 7240kHz. **Turkish:** 18.30-19.30 on 1350/3240/6030kHz.
To Europe: 19.30-22.00 on 6030/6095kHz. **English:** 19.30-20.20. **German:** 20.20-21.00. **French:** 21.10-22.00.
ANN: "Itha'at Al-Jemhoriya Al-Iraqiya Fi Baghdad" (The Broadcasting Service of the Iraqui Republic in Baghdad"). English: "This is R. Baghdad". French: "Ici R. Baghdad". German: "Hier ist R. Baghdad".
INT-SIG: Soft chirps of a mechanical nightingale.
V. by QSL-card.

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ISRAEL

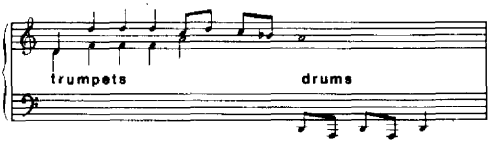
ISRAEL BROADCASTING AUTHORITY (Statutory)
ADDR: Adm. and Studios: Rehov Heleni Hamalka, Jerusalem. **Te:** 28396 (Adm.), 28101 (Studios); TV Studios: Romema, Jerusalem. **Te:** 51111. **Cable:** Kolyisrael. **L.P:** Dir. Gen: Sh. Almog. Ag. Dir. (Radio): Dr. Y. Spira. Ag. Dir. (TV): H. Pinsker. Ag. Asst. Dir. Gen. (Adm.): M. Hovav. Legal Adviser: N. Cohen. Chief Eng: Sh. Gal.
STATIONS: Medium Waves:

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
575	521.7	100	A	1025	292.7	100	D
656	457.3	100	B	1169	256.6	1	A
677	443.1	20	D	1205	249.0	10	A
710	422.5	1	B	1286	233.3	7.5	
737	407.1	200/100	D	1304	230.1	1	
845	355.0	1	A	1358	220.9	0.5	A+B
881	340.5	0.05	A	1367	219.5	5	

Short Waves:

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
2442	122.9	1		9625	31.17	100/20	C
7189	41.73	20	D	9725	30.85	100	C
9009	33.30	50/7.5	C				

FM: 91.3MHz 100kW (Prgr.A), 95.3MHz 30kW (Prgr.B).
HOME SCE: Prgr. A (Hebrew): 09.30-12.30, 14.00-22.00 (Sat 09.30-11.00, 15.00-22.00).
N: 10.00, 11.00, 12.00, 15.00, 16.00, 17.00, 18.00, 18.57, 21.00, 22.00.
Prgr. B in Hebrew, Yiddish, Ladino, Rumanian, Hungarian, Russian, Moghrabit and Easy Hebrew: 04.00-22.00; **N. (Hebrew):** 04.05, 05.00, 06.00, 08.00, 10.00, 11.00, 12.00, 14.00, 15.00, 16.00, 20.00, 21.00, 22.00; **Easy Hebrew:** 17.00; **Foreign Languages:** Yiddish 17.45-18.00, Ladino 18.00-18.15; Moghrabit 18.15-18.30; Rumanian 18.30-18.45; Russian 18.45-19.00 (Sun-Fri only); Hungarian 18.45-19.00 (Sat only). (This prgr. is also aired over 1358kHz at 04.00-09.30.)
Prgr. D. in Arabic, English, French on 677/737/1025/7189kHz:
Arabic: 04.00-05.00, 05.30-07.00, 08.58-11.30, 12.30-18.30, 19.00-22.15. **English:** 05.00-05.15, 11.30-12.00, 18.30-18.45. **French:** 05.15-05.30, 12.00-12.30, 18.45-19.00. **Galei Tsahal** (Forces Broadc. Sce.): 09.30-12.10, 15.00-21.30 on 1286/1304/1367/2442kHz.
ANN: Home Sce: "Kol Ysrael Mi-Yerusahalayim b'Reshet Aleph" (Network A from Jerusalem); "Ha-Gal Ha-Kel shel Kol Yisrael (Light Prgr.) or "Kol Yisrael mi Yerusalaim b'Reshet Beit (Network B); Arabic: "Dar il 'Eza'a il' Israeliya min il-Kuds wa' Ramallah (The Israel Broadc. House, from Jerusalem and Ramallah): Forces Broadc. Sce: "Galei Tsahal, Shidurei Tsva Hagana Le-Yisrael".
FOREIGN SCE. on 9009/9725kHz (Prgr C):
9009 (omnidir) 9725kHz: 04.00-04.45 to Europe; 15.30-22.00 to Europe, 20.15-20.30 to Africa, also on 9625kHz 15.30-20.00 (to Europe).
English 04.00-04.30, Russian 04.30-04.45, 15.30-15.45; Yiddish 16.00-16.30, Persian 16.30-17.00, Russian 17.00-17.30, Hungarian 17.30-17.45, Rumanian 17.45-18.00, Ladino 18.00-18.15,* Moghrabit 18.15-18.30,* Yiddish 18.30-19.00, Hebrew 19.00-19.30, Russian 19.30-20.00, **French** 21.00-21.30, **English** 20.15-20.30 (to So. Africa), 20.30-21.00 (to Europe), Russian 21.45-22.00.
N: At the beginning of each prgr. and 16.20, 18.50 (Yiddish). *) Rel. Prgr. "B".
ANN: Hebrew: "Kan shidurei yisrael mi-yerushalayim". Yiddish: "Hert zu der yisrael odizie in yiddish fyn yerushalayim". Ladino: "Emission de yisrael, en a langua Judeo-Espagnol", Persian: "Inja Urshalim radio israil". E. "This is Israel broadcasting from Jerusalem". F: "Ici Jerusalem, Radiodiff, Israelienne". Arabic: "Dar il Eza'a il Israeliya min urshalim el kuds".
INT-SIG: Hatiqva (Nat. Hymn).



FI: By state, licence payments, adv.

JAPAN

L.T: GMT+9h — **Pr.L:** Japanese — **EC:** a/c 50+60 (yes).

NIPPON HOSO KYOKAI (NHK)
(The Japan Broadcasting Corporation)
(Public Corporation, non-Gov, non-comm)

ADDR: No. 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo. **Cable:** RADIONHK. **Te:** (501)4111. **Telex:** TK 2377, 4338 — **L.P:** Chmn (Board of Governors): S. Ito. Pres: Y. Maeda. Vice Pres: K. Ono. Dir. Gen. of Engineering: T. Nomura. Gen. Man. Dir's: S. Takenaka, K. Kawakami, M. Shiga, T. Nagasawa, H. Sano. Man. Dir's: H. Sho, K. Fujishima, S. Omura, H. Matsura. Auditor's: M. Nagahama, T. Suzuki, I. Nakayama. Dir's Secr: H. Hikino. Policy Planning Bureau: T. Nomura, Y. Otani, M. Sorimachi, A. Toyoda, T. Watanabe, M. Arai. Man. Inf. Sce. Bureau: K. Sakakura. Publ. Rel. Bureau: T. Iida. Legal Affairs Bureau: K. Aoki. Audit Bureau: I. Hatakeyama. Prgr. Inspection Bureau: M. Tateno. Gen. Broadc. Adm: K. Kawakami. Hqs. of Techn. Adm. and Construction: K. Fujishima. Gen. Adm. of Audience Sce: H. Sano. Educ. Prgr. Dept: M. Yamazaki. News Dept: M. Hirano. News Commentators Room: A. Ogata. Entertainm. Prgr. Dept: U. Nakayama. Tech. Operation Center: K. Yabashi. Prgr. Servicing Dept: M. Kobayashi. Announcers Room: M. Kato. Eng: Operation Dept: Z. Tóyota. Broadc. Servicing Dept: Y. Nishikawa. Overseas Broadc. Dept: T. Hashimoto. Tokyo Audience Sces. Dept: H. Sugita. Staff Adm: S. Omura. Personnel Dept: M. Kawahara. Labor Rel. Dept: M. Nakatsuka. C. Training Inst: N. Shimazaki. Finance Dept: N. Ikeda. Gen. Affairs Dept: S. Michizu. Broadc. C. Man. Dept: S. Kiuchi. Radio and TV Cult. Research Inst: S. Takashima. Public Opinion Research Inst: Y. Sakuraba. Techn. Research Lab: S. Shimizu. Broadc. Science Research Lab: H. Nakajima.

STATIONS: Medium Waves: The medium wave (535-1605 kHz) tr's are used for domestic radio sce. in the 1st and 2nd net, both extensive enough to place the entire country under coverage. Number of stations (as of Oct. 1st, 1969) 1st Network: 170 — 2nd Network: 141. i)=1st Netw; 2)=2nd Netw.

Call	kHz	kW		Call	kHz	kW		Call	kHz	kW	
†Sapporo				**Koriyama**				**Nanao**			
1) IK	570	100		1) CP	820	1		1) —	540	1	
2) IB	750	100		2) CD	1510	1		2) —	1370	0.1	
Hakodate				**Aomori**				**Fukui**			
1) VK	680	5		1) TG	960	5		1) FG	980	5	
2)*VB	1470	1		2) TC	1520	1		2) FC	1520	1	
Asahikawa				**Hachinohe**				**Toyama**			
1) CG	620	3		1) TQ	1300	1		1) IG	650	5	
2) CC	1470	1		2) TZ	1510	1		2) IC	1080	1	
Wakkanai				***Tokyo**				**†Osaka**			
1) —	980	1		1) AK	590	100		1) BK	670	100	
2) —	1470	0.5		2) AB	690	300		2) BB	830	300	
Nayoro				**Kofu**				**Hikone**			
1) —	600	1		1) KG	980	5		1) BS	780	1	
2) —	1370	1		2) KC	1470	1		**Kyoto**			
Enbetsu				**Nagano**				1) OK	1300	1	
1) —	790	1		1) NK	820	1		2) OB	1510	1	
2) —	1600	1		2) NB	1370	1		**†Hiroshima**			
Obihiro				**Matsumoto**				1) FK	1070	10	
1) OG	660	5		1) SG	540	1		2) FB	700	10	
2) OC	1080	1		2) SC	1510	1		**Fukuyama**			
Kushiro				**Iida**				1) DP	1000	1	
1) PG	640	10		1) —	620	1		2) DD	1470	1	
2) PC	1150	10		2) —	1480	0.5		**Okayama**			
Kitami				**Niigata**				1) KK	600	5	
1) KP	1190	10		1) QK	840	10		2) KB	1600	5	
2) KD	700	10		2) QB	1590	10		**Matsue**			
Muroran				**Takada**				1) TK	1240	10	
1) IU	780	3		1) —	790	1		2) TB	1590	10	
2) IT	1080	1		2) —	1360	0.1		**Tottori**			
†Sendai				**†Nagoya**				1) LG	1300	1	
1) HK	890	10		1) CK	730	10		2) LC	1080	1	
2) HB	1090	10		2) CB	910	10		**Yonago**			
Akita				**Takayama**				1) LQ	960	1	
1) UK	1170	10		1) CQ	790	1		2) LU	1520	1	
2) UB	770	10		2) CZ	1370	1		**Yamaguchi**			
Yamagata				**Shizouka**				1) UG	680	5	
1) JG	540	5		1) PK	880	10		2) UC	1370	5	
2) JC	1520	1		2) PB	760	10		**Hagi**			
Tsuruoka				**Hamamatsu**				1) —	960	1	
1) JP	1320	1		1) DG	1000	1		2) —	1600	0.5	
2) JD	1510	1		2) DC	1520	1		**†Matsuyama**			
Morioka				**Kanazawa**				1) ZK	960	5	
1) QG	850	10		1) JK	1220	10		2) ZB	1510	5	
2) QC	1390	10		2) JB	1390	10					

Call	kHz	kW		Call	kHz	kW		Call	kHz	kW	
Uwajima				**Hitoyoshi**				**Naze**			
1) ZU	1440	1		1) —	820	1		1) —	790	1	
2) ZY	1600	1		2) —	1600	1		2) —	1480	1	
Kochi				**Fukuoka**				**Miyazaki**			
1) RK	990	10		1) LK	610	100		1) MG	540	1	
2) RB	1150	10		2) LB	870	100		2) MC	1470	1	
Nakamura				**Kitayushu**				**Nobeoka**			
1) —	1000	1		1) SK	540	1		1) —	620	1	
2) —	1520	0.5		2) SB	1600	1		2) —	1480	1	
Tokushima				**Nagasaki**				**Oita**			
1) XK	780	5		1) AG	660	5		1) IP	820	1	
2) XB	1520	1		2) AC	1600	1		2) ID	1470	1	
Takamatsu				**Kagoshima**				**Saga**			
1) HP	1300	5		1 HG	580	10		1) SP	960	1	
2) HD	1080	1		2) HC	1390	10		2) SD	1370	1	
†Kumamoto											
1) GK	930	10									
2) GB	1590	10									

+190 st's less 1kW not mentioned.
*) Headquarters; †) Reg. Key St.

HOME SERVICES

1st Netw: 20.00-15.00 — **N:** W Every h and 04.30, 05.30, 06.30, 07.30, 08.35, 14.55, Sun: Every h exc. 01.00, 05.00, 11.00; also 14.55 — **Wrp:** 20.34, 20.57, 21.13, 21.50, 22.15, 22.47, 23.58, 00.58, 01.58, 02.55, 03.13, 03.58, 04.58, 05.58, 06.08, 06.58, 07.58, 09.50, 10.15, 11.58, 12.13, 12.58, 13.08, 13.58, 14.58 — **Mbg: W:** 21.50 — **T.S:** Every h.
2nd Netw: D 20.30-15.00 — **English: N:** W 09.55 — **L.L: Fundamental Course of English:** W 21.05-21.25, 06.25-06.45, 09.20-09.40. **English Conversation:** W 21.25-21.40 06.10-07.25, 09.40-09.55. **German:** 22.00-22.20. **French:** 22.40-23.00, 14.40-15.00 — **Wrp:** 00.15, 07.00, 13.00. **School Broadc:** W 00.00-03.00, 04.00-04.15 (not Sat).
FM-STATIONS: 2 st's of 10kW, 2 st's of 5kW, 1 st of 3kW, 26 st's of 1kW, 9 st's of 0.5kW, 12 st's of 0.25kW, 65 st's of 0.1kW, 69 st's less 0.1kW.
D. 21.00-15.00 (Monophonic and Stereophonic broadc. in Pilot tone system).

RELAYS OF HOME SCE. ON SHORT WAVES

(G.C: JKH 139.50E/36.10N — JKH3 139.37E/35.46N)
1st Prgr: JKH 7230kHz 41.49m 5kW: 20.00-22.15, 08.00-10.00; JKH2 9655kHz 31.07m 5kW: 22.25-07.45 — **2nd Prgr:** JKH3 7285kHz 41.18m 5kW: 20.30-10.00.

FOREIGN SERVICE

I=No. America Sce; II=No. and Latin American and Hawaiian Sce; III=European Sce; IV=Latin American Sce; V=Australia/N.Z. Sce; VI=So. Ea. Asian Sce; VII=Asian Continent Sce; VIII=So. Asian and African Sce; IX=M. East and No. African Sce.
Languages: a) English — b) Japanese, English, Spanish — c) German, French, English, Italian, Swedish — d) Russian, German, English — e) Japanese, Portuguese, Spanish — f) Standard Chinese, Fukienese, Cantonese, Vietnamese — g) English, Indonesian, Malay — h) French, Vietnamese, Burmese, Thai, Indonesian, Standard Chinese, Fukienese, Cantonese — i) Russian, Standard Chinese — j) Standard Chinese — k) Korean — l) Hindi, Urdu, Swahili, French, English, Bengali — m) English, French, Arabic.

STATIONS: 20/50/100/200kW (G.C: 139.37E/35.46N and 139.50E/36.10N):

kHz	m	kHz	m	kHz	m	kHz	m
6080	49.34	9675	31.01	11875	25.26	15445	19.43
6140	48.86	9705	30.91	11940	25.13	17725	16.93
7140	42.02	9735	30.82	11950	25.10	17785	16.87
7195	41.70	9765	30.72	11960	25.08	17855	16.80
9505	31.56	11705	25.63	15105	19.86	17825	16.83
9525	31.50	11780	25.47	15195	19.74	17880	16.78
9530	31.48	11815	25.39	15235	19.69	21535	13.92
9560	31.38	11855	25.31	15300	19.61	21640	13.86
9670	31.02						

GENERAL SERVICE in English and Japanese

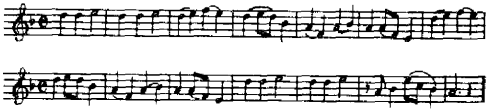
Times	kHz	Times	kHz
00.00-00.30	9735,15195,	10.00-11.00	
	17785	11.00-11.30	
		12.00-12.30	
01.00-01.30		13.00-13.30	
02.00-02.30	15015,15300,	14.00-15.00	9505,9560,
03.00-03.30	17880	15.00-15.30	11815
04.00-04.30	9505,15300,	16.00-16.30	
05.00-05.30	17880	17.00-17.30	
06.00-06.30	9505,17855,	18.00-18.30	
	17880	19.00-19.30	
		20.00-20.30	9560,11815,
07.00-07.30		21.00-21.30	15105
08.00-08.30	9505,15195,	22.00-22.30	9735,15195,
09.00-09.30	17855	23.00-24.00	17785

Beams: 9505 (54°) (No. America), 11815 (240°) (Asia), 15105 (54°) (No. America), 15195 (240°) (Asia), 15300 (330°) (Europe), 17785kHz (54°) (No. America), 17855 (330°) (Europe), 17880kHz (240°) (Asia).
N. in English: Every h on the h.

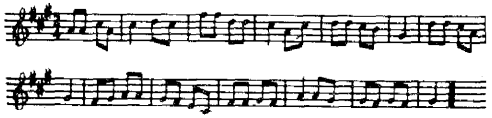
REGIONAL SERVICES:

Times	Sce	kHz	L	N.inEnglish
23.45-00.45	I	17825,15445	a	23.45-23.55 00.35-00.45
01.00-03.00	II	17825,17725 15235,21640	b	01.30-01.40 02.20-02.30
06.45-08.45	III	17825,21535	c	08.00-08.10
19.30-21.00	III	9735,11950	d	20.30-20.40
09.00-11.00	IV	11780,9765,9530	e	
09.30-10.30	V	11875,15235	a	09.30-09.40 10.20-10.30
09.45-11.15	VI	9705,7195,11940	f	
10.45-12.15	VI	11875,9675	g	10.45-10.55
12.00-15.30	VI	11940,11780,9525	h	
12.30-13.30	VII	7140,9675,11705	i	
23.00-23.30	VII	7140,9675,11705	j	
11.30-12.15	VII	7140,6140,6080	k	
22.00-22.45	VII	7140,6140,6080		
15.00-17.30	VIII	11705,9670	l	16.30-16.40
17.45-19.15	IX	7195,9670	m	17.45-17.55

NEWS (in other languages): **French:** 07.30 (III), 12.00 (VI), 17.00 (VIII), 18.15 (IX) — **German:** 07.00 (III), 20.00 (III) — **Portuguese:** 10.30 (IV) — **Russian:** 19.30 (III), 12.30 (VII) — **Spanish:** 02.30 (II), 11.00 (IV) — **Indonesian:** 11.15 (VI), 14.00 (VI) — **Italian Hour:** Mon.
DX-PRGR ("R. Japan DX News"): In "Listeners' Corner" on every 3rd Sat/Sun: Sat 08.25-08.30 (III), 10.05-10.20 (V), 20.55-21.00 (III), Sun 00.20-00.35 (I), 02.05-02.20 (II); Fortnightly in the weekly "Disc Jockey"; Sun 10.55-11.05 (VI), 16.40-16.55 (VIII), 17.55-18.10 (IX).
ANN: Home Service: The call sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes an announcement, "NHK" is made at the end of the news prgr's of both 1st network and of FM network. It also comes before the call sign of 2nd network.
Foreign Service: English: "This is Radio Japan, the Overseas Broadcasting Service of NHK. We are broadcasting to . . . . (target area)" — **French:** "Ici Radio Japon . . . . (target area)" — **German:** "Hier ist Tokyo, der Japanische Rundfunk . . . . (tarket area)" — **Italian:** "Buon giorno, sign. radioascoltatori Italiani; Qui Radio Giappone — Reparto Servizio Internazionale di NHK . . ." — **Spanish:** "Aqui Radio Japón" — **Portuguese:** "Estão ouvindo a Radio Japáo . . . . " — **Indonesian:** "Inilah Radio Djepang, siaran international dari NHK di Tokio . . .".
INT-SIG: Home Service: Both on the 1st and 2nd network, a musical sign is beamed on a celeste before commencing broadcast. No interval signal is used since both the 1st and the 2nd networks are continuously on the air — **Foreign Service:** Opening music of Reg. Sce's "Sakura".



Interval signal music "Kazoe Uta".



PUB: In Japanese only: Graph NHK (twice a month), Hoso Bunka or Broadcast Culture (monthly), NHK Year Book (annual). In English and others: NHK Handbook (annual in E), NHK Today and Tomorrow (monthly in E, F, Sp), Radio Japan News (monthly in E, J, Sp and others), This is NHK (annual in E), NHK Technical Monograph (irr. in E), NHK Laboratories Note (annual in E). The prgr. schedules for Overseas Service (R. Japan), Studies of Broadcasting (annual in E) — **V.** by QSL-card and letter — **FI:** In accordance with the Broadcast Law, NHK's operations are financed by the revenue from subscription fee — **ALF:** 600 Yen.

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN
ADDR: Bungei Shunju Bldg 3, Kioi-cho, Chiyoda-ku, Tokyo. **Te:** 265-7481. **Cable:** Mimporen. **L.P:** Pres: J. Imamichi. Exec. Dir: S. Sakai. Secr. Gen: K. Sugiyama.
Medium Waves: Call: JO-

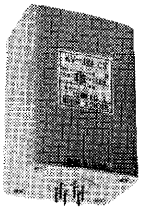
	Call	kHz	kW		Call	kHz	kW		Call	kHz	kW
1)	CR	560	10	11)	EL	1100	1	7)	HR	1290	10
2)	DF	720	1	20)	WO	1100	1	34)	LF	1310	50
3)	IL	720	1	21)	GF	1100	1	35)	SF	1330	10
4)	JF)	740	5	6)	SR	1110	1	36)	ER	1350	10
5)	LR	740	5	22)	BW	1110	1	37)	UF	1380	20
6)	SO	860	1	23)	MR	1110	5	38)	VR	1400	5
7)	QF	860	3	24)	AF	1120	5	7)	QL	1400	1
8)	PR	860	5	25)	DR	1120	5	3)	IF	1410	10
7)	HE	860	3	26)	QR	1130	50	39)	RF	1420	10
9)	HF	900	5	22)	BR	1140	10	31)	GO	1430	3
10)	ZR	900	5	23)	MO	1200	1	40)	VF	1430	3
7)	HO	900	5	6)	SW	1200	1	41)	ZF	1430	1
11)	EF	920	5	27)	BF	1200	5	7)	QM	1450	5
12)	HF	920	1	28)	YF	1200	1	42)	KF	1450	5
13)	TR	940	5	29)	FO	1200	1	14)	PL	1460	1
14)	PE	940	5	30)	OR	1210	20	43)	WF	1460	5
15)	KR	950	50	19)	UR	1230	5	7)	TL	1490	1
16)	NR	1010	20	31)	GR	1230	5	44)	YR	1490	5
17)	AR	1050	10	32)	IR	1260	10	25)	DO	1530	1
18)	CF	1100	5	29)	FR	1270	10	45)	XF	1530	1
19)	MF	1100	1	7)	HW	1280	5	24)	AM	1530	1
12)	NF	1100	1	33)	JR	1280	5				

+71 low power st's less 1kW not mentioned.
1) **R. Kansai Ltd,** 1-1 Miyuki-cho, Sumaku, Kobe. **Te:** 71-4321. Chmn: H. Miayzaki. Dir. Gen: T. Tanaka. Gen. Mgr: H. Sekiguchi. Dir. Tec: O. Sekiya. 20.30-16.00. **V.** by QSL-card.
2) **Iwate Broadc. Co,** 1-6 Shikecho, Morioka. Pres: T. Ota. Dir. Gen: M. Yoshida. 20.30-15.00. **V.** by QSL-card.
3) **Kyushu Asahi Broadc. Co,** 1-1 Nagahama-cho, Fukuoka. Chmn: I. Dan. Pres: S. Takano. 20.30-15.40. **V.** by QSL-card.
4) **Yamanashi Broadc. System Inc,** 10-6 2-chome, Kitaguchi, Kofu. Chmn: J. Noguchi. Pres: H. Noguchi. 20.30-14.45.

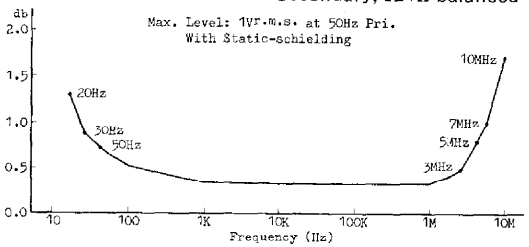
KV-Series Video Transformers

- Provide wide frequency band (flat up to 10MHz)
- Completely eliminate longitudinal current
- Have terminals hermetically sealed against weather

And a new advance—KV-124CS



has joined the series with the following specifications.
Frequency response: 20Hz~9MHz ±1.0db
Insertion loss: 0.35db at 15KHz
Max. level: 2.8V p-p input at 50Hz
Longitudinal current suppression: 70db or better at 15KHz, 50db or better at 1MHz
Impedance: Primary; 75Ω unbalanced, Secondary; 124Ω balanced



NIHON KOHDEN
NIHON KOHDEN KOGYO CO.,LTD.
Foreign Dept.: 31-4, Nishiochiai 1-chome, Shinjuku-ku, Tokyo, 161, Japan
Cable Address: MEKOHDEN TOKYO Telex: MEKOHDEN TK4804

5) **Kita Nihon Broadc. Co,** 18-10 Ushijima, Toyama. Pres: R. Yokoyama. 21.50-14.10.
6) **Shinetsu Broadc. Co,** 132-1 Yoshida, Nagano. St. Mgr: T. Sawa. Dir. Tec: K. Matsuyama. **D.Prgr:** 20.25-15.50. **N:** On the h at 21.00-06.00 and 08.00, 09.30, 12.55, 13.50. **Prgr.** schedule free upon request.
7) **Hokkaido Broadc. Co,** North 1, West 5, Sapporo, Hokkaido. **Te:** (01)22-23-8181. Pres: S. Abe. Dir. Gen: K. Muroya. Dir. Tec: K. Kamo. **D.Prgr: N:** 20.55, 22.55, 23.55, 00.55, 01.55, 02.45, 03.40, 04.55, 05.55, 07.55, 08.55, 09.30, 13.50. **V.** by QSL-card. Prgr. schedule free.
8) **Fukui Broadc. Co,** 4-3 Ote-machi, Fukui. Pres: S. Kato. Dir. Gen: Y. Yoshida.
9) **Broadc. System of San In,** 423 Nishifukuhara, Yonago. Chmn: H. Sakaguchi. Pres: O. Oda. 20.35-15.05.
10) **Kochi Broadc. Co. Ltd,** 23 Honmachi, Kochi. Chmn: G. Fukuda. Pres: M. Katada.
11) **Yamagata Broadc. Co,** 5-2 Hatagocho, Yamagata. Pres: T. Hattori. 20.00-11.45. **V.** by QSL-card.
12) **Miyazaki Broadc. Co,** 858 Shimo Kitakatamachi, Miyazaki. Chmn: S. Iwakiri. Pres: Y. Kuroki. 20.30-15.05. **V.** by QSL-card.
13) **Akita Broadc. System,** Sanno Odori, Akita. Chmn: S. Hitomi. Pres: G. Kurata. 20.00-14.40.
14) **Yamaguchi Broadc. Co,** Koenku, Tokoyama. Pres: K. Nomura. 20.30-15.00. **V.** by QSL-card.
15) **Tokyo Broadc. System,** Main Office: 3-6 Akasaka, Minatoku, Tokyo. **Te:** (584)3111. **Cable:** JOKR. Chmn: T. Adachi. Pres: J. Imamichi. Dir. Gen: T. Morimoto. Dir. Prgr: M. Yamagati. Dir. Prgr: S. Sakamoto (radio), Y. Yamanishi (TV). 20.00-16.30 (Sun 17.00). **N:** 5 min every h. **Ann:** "JOKR Kochirawa Tokyo Hoso desu". E: "JOKR, this is TBS". **V.** by letter. Recordings accepted.
16) **Asahi Broadc. Corp,** Main Office and R. st: 2-2 Yodocho, Yodoku, Osaka. Tokyo Office: Yurakucho, Tokyo. **Te:** (06)458-5321. **Cable:** JONRTV. **L.P:** Pres: T. Hirai. Vice Pres: K. Hara. Man. Dir: T. Sudo. Dir. Tec: E. Habu. Dir. Tokyo Office: K. Tamura. **D.Prgr:** 20.30-17.00. **N:** 21.00, 22.00, 23.00, 24.00, 02.00, 03.00, 04.00 (W), 05.00 (W), 06.00, 07.00 (W), 08.00 (W), 09.00 (W), 09.50 (Sun), 12.00, 14.00. **Ann:** "ABC Asahi Hoso JONR". **V.** by QSL-card. Re. in E. recorded Re. preferred.
17) **Chubu-Nippon Broadc. Co,** 4-15 Shinsakae-machi, Naka-ku, Nagoya. **Te:** 241-8111. Chmn: K. Sasabe. Pres: G. Kojima. **D.Prgr:** 20.30-16.00. **N:** On the h 21.00-09.00 and at 09.15, 12.45, 14.50. **V.** by QSL-card.
18) **Minaminihon Broadc. Co,** 17 Korai-cho, Kagoshima. Chmn: K. Terazono. Pres: S. Hatanaka. 23.50-13.55. **V.** by QSL-card.
19) **Nagasaki Broadc. Co,** 35-1 Uemachi, Nagasaki. Pres: R. Nakabe.
20) **R. Fukushima Broadc. Co,** 1-11 Sakaemachi, Fukushima. Vice Pres: Y. Honda. Man. Dir: K. Sugimoto. **D.Prgr:** 20.30-15.00. **N:** 21.50, 22.55, 23.55 (W), 00.55, 02.05 (W), 02.50, 04.55, 05.55 (W), 06.15 (W), 08.05 (W), 09.20, 13.20. **V.** by letter.
21) **Oita Broadc. Sce,** 5-1315 Imazuru, Oita. Pres: Y. Hoshino. 20.30-15.00. **V.** by QSL-card.
22) **Kinki Broadc. System Co,** Karasuma-dori, Nakakyo-Ku, Kyoto. Chmn: T. Nakano. Pres: K. Shiraishi. 20.30-16.00. **N.** Every h on the h from 21.00. **V.** by QSL-card. Prgr. schedule on request.
23) **Hokuriku Broadc. Co,** 5-7 Korinho, Kanazawa. Chmn: Y. Miyashita. Pres: Y. Saga. 20.30-15.00.
24) **Nankai Broadc. Co,** 1-1135 Aogo, Matsuyama. Chmn: Y. Yamanaka. **Pres:** Y. Hirata.
25) **Broadc. System of Niigata,** 18-3 Kawagishicho, Niigata. Pres: E. Horiuchi.
26) **Nippon Cultural Broadc. Inc,** 5-1 Wakaba-cho, Shinjuku, Tokyo. Chmn: S. Mizuno. Pres: S. Tomoya. 20.00-16.55. **Ann:** "Okiki no hoso wa Bunka Hoso 1130kc desu". **V.** by QSL-card.
27) **Kumamoto Broadc. Corp,** 30 Yamasaki-machi, Kumamoto. Pres: R. Fukami. Chmn: T. Izu. 23.50-04.40 and 08.30-16.30.
28) **Ibaraki Broadc. System,** 2-14 Kitami-cho, Mito. Dir. Tec: H. Kurobe. 20.30-14.05. **N:** 20.30, 21.30, 21.45, 22.30, 22.50, 23.55, 00.55, 02.45, 03.55, 04.55, 05.30, 06.30, 07.30, 08.55, 09.45, 10.50, 12.00, 13.30. **Ann:** "Kochirawa Igaraki Hoso Desu".
29) **RKB Mainichi Broadc. Co,** Watanabe-dori 4, Fukuoka. Pres: H. Kaneko. Gen. Mgr: K. Kimoto. Dir. Tec: S. Karikita. 20.30-16.00.
30) **Mainichi Broadc. System Inc,** Head Office: 53 Funadaiku-cho, Dojima, Kita-ku, Osaka. Tokyo Office: Yuraku-cho, Chiyodaku, Tokyo. **Te:** Head Office: 361-8231. **Cable:** Mainichihoso, Osaka. Chmn: C. Honda. Pres: S. Takahashi. 20.30-16.00. **N:** Every h on the h 21.00-07.00, 09.00, 14.00. **Ann:** "MBS, Mainichi Hoso desu". **V.** by QSL-card. Prgr. schedule on request.
31) **Aomori Broadc. Co,** 72 Fukuda, Matsumori, Aomori City. Chmn: S. Takeuchi. Pres: I. Sakamoto. Dir. Tec: H. Tomura. **D.Prgr: N:** 21.00, 22.00, 24.00, 01.00, 03.00, 04.00, 05.00, 06.00, 08.00, 09.30, 13.00. **V.** by QSL-card.
32) **Tohoku Broadc. Co,** 26 Kasumisho, Yagiyama, Sendai. Pres: C. Kanno. 20.30-15.15.
33) **Shikoku Broadc. Corp,** 32-1 Saiwaicho, Tokushima. Chmn: S. Maekawa. Pres: T. Yamamashi. 20.30-16.10.
34) **Nippon Broadc. System Inc,** 7-1 Yurakucho, Chiyodaku, Tokyo. Chmn: K. Uemura. Pres: N. Shikanai. 24h. **N,Wrp:** 00.30, 01.30, 03.30, 05.30, 06.30, 07.30, 09.30, 11.30, 12.30, 13.30, 14.30, 15.30, 17.30, 23.30. **Ann:** "Okiki no Hoso wa 1310kc Shutsu-ryoku 50kW de ookuri shiteiru Nippon Hoso desu" (This is Nippon Hoso). **V.** by QSL-card.
35) **Tokai R. Broadc. Co,** 7 Tushincho, Higashi-ku, Nagoya. Pres: M. Abo. 20.00-18.00. **V.** by QSL-card.
36) **Chugoku Broadc. Co. Ltd,** Motomachi 34, Hiroshima. **Te:** 21-4191. **L.P:** Chmn: S. Fujita. Pres: T. Tsukifuji. Dir. Tec: T. Watanabe. **D.Prgr:** N: 21.00, 22.00, 22.55, 23.55, 00.55, 01.55, 02.45, 03.55, 06.00, 07.55, 12.45, 13.55. **V.** by QSL-card. Re. in E.
37) **Osaka Broadc. Corp,** 27 Umeda-cho, Kita-ku, Osaka. **Te:** 361-1271. Chmn: H. Maeda. Pres: T. Maeda. 20.30-17.30. **Ann:** "Okiki no hoso wa Rajio Osaka desu". **Int-Sig:** Gong. **V.** by QSL-card. Recordings accepted.
38) **Shizuoka Broadc. System,** 46 Konyucho, Shizuoka. Chmn: Y. Komuratani. 20.30-14.30.
39) **R. Kanto,** Oimatsu-cho, Nishi-ku, Yokohama. Pres: K. Toyama. Man. Dir: H. Komamura. Pres: K. Toyama. 20.00-16.30. **V.** by QSL-card.
40) **Wakayama Broadc. Corp,** 15 Yoriaicho, Wakayama. Pres: T. Saki: 20.30-15.30.
41) **R. Gifu Broadc. Co. Ltd,** 9 Imakomachi, Gifu City. Pres: T. Yamada.
42) **Nishi-Nippon Broadc. Co,** 8-7 Marumonochi, Takamatsu. Chmn: T. Hirai. Pres: J. Hirai.
43) **Sapporo TV Broadc. Co,** 1 chome-Nishi, Minami Ichijo, Sapporo. Pres: S. Hagiwara.
44) **Sanyo Broadc. Co,** Uchisange 3-28, Okayama. **Te:** 23-2121. Pres: M. Tatsumi. 20.30-15.00. **V.** by QSL-card.
45) **R. Tochigi Co,** 357 Hanawadamachi, Utsunomiya. Pres: Y. Fukushima.
46) **Nihon Short-wave Broadc. Co. Ltd.**
*)=Sapporo; others Tokyo — †)=2nd Prgr.

	Call	kHz	m	kW		Call	kHz	m	kW
46)	JOZ5†	3945	76.05	10	46)	JOZ6†	7230	41.49	10d
46)	JOZ	3925	76.43	50	46)	JOZ3	9595	31.27	50/10
46)	JOZ4*	3945	76.05	10d	46)	JOZ7	9760	30.74	10d
46)	JOZ2	6055	49.55	50/10					

Addr: 9-15, Akasaka 1-chome, Minatoku, Tokyo. **Te:** 583-8151. **L.P:** Pres: M. Nakajima.
D.Prgr: 1st Prgr: 20.30-18.00 on 3925/6055/9595kHz; 20.30-23.00 and 07.20-15.50 on 3945kHz. **N:** 23.30, 03.35, 08.30, 11.30. **2nd Prgr:** 23.00-07.20 on 3945/7230kHz; 01.00-05.00 on 9760kHz. **N:** 23.30, 03.35. **L.L:** "Let's learn Japanese" (presented in English): Mon-Fri 10.45-11.00 (Prgr. 1 and 2). **Ann:** "Okiki no hoso wa Nihon Tampa Hoso desu" of "N.S.B." — **Int-Sig:** Slow tempo chime with Japanese musical instrument "Koto" at sign on and sign off — **V.** by QSL-card.

FAR EAST NETWORK (AFRTS)

The network serves the members of the US-Forces serving in the Far East — **Authority:** The st's in Japan broadcast by authority of the Commander, US Forces, Japan, in co-operation with Japanese Radio Regulatory Bureau. St's are linked by land line and troppo scatter, and operated 24h daily.
ADDR: Headquarters, Far East Network, APO, San Francisco 96267. **Te:** Tokyo 222-3769 — **L.P:** Chief: Lt. Col. Frederick Forte. Dir. Prgr: J. Buey. Dir. Tec: H. Yaskal.

STATIONS: *) Short wave (G.C: 139.37E/35.46N).

Location	kHz	kW	Location	kHz	kW
Tokyo	*810	10	Sasebo	1570	0.25
Itazuke	1550	10	Misawa	1580	0.25
Wakkanai	1580	0.1	Iwakuni	1580	1
Chitose	1570	0.25			

Short Waves (Tokyo)†

3910kHz	76.73m	10/1kW:	07.15-22.40 10kW, 22.50-07.05 1kW
6155kHz	48.74m	10kW:	24h
11750kHz	25.53m	10/1kW:	22.50-07.05 10kW, 07.15-22.40 1kW
15260kHz	19.66m	1kW:	24h

†) Power and direction vary to meet point to poir

commitments for rebroadc. from AFRTS st's in Japan, Korea, Okinawa, Taiwan — **N:** Every h on the h. **ANN:** "This is the Far East Network . . . Far East Network, Tokyo (Chitose, Itazuke, etc.)" plus freq's on shortwave — **V.** by QSL-card — **PUB:** Master schedule monthly.

FM-TOKAI (Comm.)
ADDR: 17, Nishikubo-Akefune-cho, Minato-ku, Tokyo. **Te:** 581-4441 — **STATIONS:** 2 tr's on 84.5MHz (both 1kW) — **HOME SCE:** 20.30-16.00. **N:** 23.00, 03.00 (W), 06.00 (W), 08.00 — **ANN:** "Kochirawa FM-Tokai desu, FMT" — **V.** by letter. Rp.

JORDAN

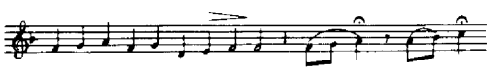
L.T: GMT+2h — **Pr.L:** Arabic, English — **EC:** a/c 50 (yes).

THE BROADCASTING SERVICE OF THE HASHEMITE KINGDOM OF JORDAN (Gov.)
ADDR: P.O. Box 909, Amman. **Te:** 37711. **Cable:** Broadcasting. **L.P:** Minister of Inf: H. E. S. Abuzaid. Dir. Gen. of Broadc: H. E. D. Rifai. Asst. Dir. Gen. Eng: A. Bayyat. Asst. Dir. Gen. Adm: Z. Ishakat. Dir. Tec: A. Bayyat. Dir. Prgr: S. Mashini.
STATIONS: Amman (exc. 677kHz Jerusalem): G.C: 35.56E/31.57N.

kHz	m	kW	kHz	m	kW	kHz	m	kW
677	443.0	200	9530	31.48	100	11870	25.27	100
800	375.0	200	9560	31.38	100	11970	25.06	100
870	344.8	3	9740	30.80	100	15170	19.78	100
6020	49.83	3	11810	25.40	5	15345	19.55	100
7155	41.92	100						

HOME SCE. (Amman): Arabic: 03.30-07.30 on 854/800/7155/11810kHz, 07.30-09.30 on 800/11810kHz, 09.30-13.30 on 800/9530/11810kHz, 13.30-23.00 on 800/7155/11810 kHz; also on 854kHz at 18.30-23.00.
N: 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 17.00, 19.00, 21.00, 22.00.

FOREIGN SCE: English: 09.55-13.15 on *870/7155kHz, 13.15-14.00 on *870kHz, 14.00-17.05 on *870/9560kHz. *) reported moved to 854kHz.
ANN: Arabic: "Hunna Amman Ithaatul Mamlakate Al Urdoniete Al Hashemieh". E: "This is Amman the Broadc. Sce. of the Hashemite Kingdom of Jordan". Sp: "Aqui R. Amman, R. Dif. Del Reino Hashemita De Jordania".
INT-SIG: Clarinet, piano.



V. by QSL-card or letter. Recordings accepted.

KOREA (Democratic People's Republic)

L.T: GMT+9h — **Pr.L:** Korean.

KOREAN CENTRAL BROADCASTING STATION
ADDR: Korean Central Broadc. Committee, D.P.R.K, Pyongyang.
STATIONS: Medium Waves *) Foreign Sce.

kHz	m	Netw.	kHz	m	Netw.	kHz	m	Netw.
635	472.4	*	725	413.8	I	800	375.0	II
655	458.0	II	735	408.2	II			
685	438.0	II	785	382.2	I	1080	277.8	II

Short Waves:

kHz	m	kHz	m	kHz	m	kHz	m
2850	105.3	6250	48.00	6540	45.87	11765	25.50
4273	70.21	6290	47.69	6600	45.45	15520	19.33
4770	62.89	6480	46.30	7580	39.58	16320	18.38

HOME SCE. in Korean: 1st prgr: 20.00-15.00 on 725/785/2850/4273/6290/6600kHz — **2nd prgr:** 20.00-17.00 on 655/685/735/800/1080/4770/6250kHz.
FOREIGN SERVICE: I=Near and Middle East/Africa/Europe; II=So. Ea. Asia; III=Latin America; IV=Europe; V=Far East; VI=Japan.

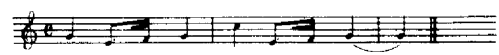
English	Area	kHz
19.00-20.00	I	6540,7580
02.00-03.00	I	6540,7580
08.00-09.00	II	6540,15520
11.00-12.00	II	6480,7580
14.00-15.00	II	6480,7580

French	Area	kHz
15.00-16.00	II	6480,7580
17.00-18.00	I	6540,7580
21.00-22.00	I	6540,7580
Russian		
16.00-17.00	IV	6540,7580
09.00-10.00	V	6480,7580

Spanish	Area	kHz
23.00-24.00	III	11765,16320
01.00-02.00	III	11765,16320
Chinese		
22.00-23.00	II	6540,11765
10.00-11.00	II	6480,7580
12.00-13.00	II	6480,7580

Japanese	Area	kHz
03.00-04.00	VI	635,6540, 7580
09.00-15.00	VI	635,6540
Korean		
20.00-21.00	I	6540,7580
00.00-01.00	III	11765,16320
04.00-05.00	II	6540,15520

INT-SIG:



V. by QSL-card or letter — **PUB:** Prgr. Sched. "Radio Pyongyang" free on request.

KOREA (Republic of)

L.T: GMT+9h — **Pr.L:** Korean — **EC:** a/c 60 (no).
THE KOREAN BROADCASTING SYSTEM (Gov.)
ADDR: Overseas Broadcasting Station, Yejangdon 8, Chungku, Seoul. **Te:** 23-1676 — **L.P:** Management Bureau: Dir: H. S. Lee. Chief Eng: K. S. Hahn. Seoul Central Broadc. St. (HLKA): Dir: J. Y. Kim. Overseas Broadc. St. (HLSA): Dir: Y. S. Lee. Chief Eng: Y. J. Kim.
STATIONS: Medium Waves *) Shortwave.

Name	Call	kHz	kW	Name	Call	kHz	kW
Yungwoll	HLCV	540	1	Hadong	HLSU	930	0.25
Hongsung	HLCZ	540	1	Cheju	HLKS	955	1
Jumchon	HLSC	540	1	Andong	HLCR	940	1
Jinju	HLCJ	560	1	Seoul	HLSA	*970	100
Jonju	HLKF	570	10	Hwachon	HLCG	1030	1
Kang-neung	HLKR	575	10	Chongju	HLKQ	1060	10
Masan	HLKD	575	1	Chungju	HLCH	1090	1
Seoul	HLCA	*600	10	Yangku	HLSY	1115	0.25
Jang-heung	HLSM	600	1	Wonju	HLCW	1150	1
Bosung	HLSL	650	1	Jongsun	HLSW	1210	0.25
Chun-chon	HLKM	*660	10	Samchok	HLCI	1230	1
Seoul	HLKA	*710	500	Ulchin	HLSU	1230	1
Taegu	HLKG	740	100	Sugipo	HLCF	1240	1
Kwangju	HLKH	750	10	Ullungdo	HLCU	1320	0.25
Mokpo	HLKN	860	10	Yosu	HLCY	1340	1
Taejon	HLKI	880	10	Pohang	HLCP	1420	0.25
Pusan	HLKB	890	50	Hwangchi	HLSJ	1480	0.25
Inje	HLSE	910	0.25	Kumchon	HLSK	1480	0.25
Chulwon	HLCO	920	1	Hamyang	HLSH	1480	0.25
				Namwon	HLKL	1530	1
				Sunchon	HLKZ	1540	0.25
				Sokcho	HLCS	1570	1

Short Waves: 1) Seoul, 2) Suwon, 3) Taegu (G.C: Seoul 126.55E/37.33N; Suwon 127.01E/37.16N).

Call	kHz	m	kW	Call	kHz	m	kW
3)HLK50	2510	119.5	10	2)HLK5	9640	31.12	50
1)HLK51	3910	76.73	5	2)HLK41	15130	19.83	50
3)HLK52	5975	50.21	10	2)HLK41	15155	19.78	50
2)HLK53	6065	49.46	10	2)HLK41	15430	19.44	50
1)HLK30	7190	41.72	1				

HOME SERVICE:
1st Prgr (Korean): 20.00-17.00 on 710/2510/3910/5975/7190kHz. **N:** 21.00, 22.00, 23.00, 01.00, 03.00, 04.00, 06.00, 07.00, 08.00, 09.00, 10.00, 12.00, 13.00, 14.00. **2nd Prgr** (Korean): 20.00-17.00.

FOREIGN SERVICE:
I=General Sce; II=Europe; III=So. Ea. Asia; IV=USSR; V=Japan; VI=Asia; VII=No. America; VIII=Latin America; IX=China; X=Vietnam (for Korean troops); XI=No. Korea.

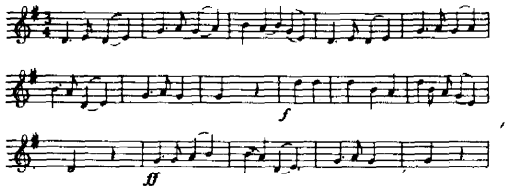
English	Area	kHz
21.00-21.30	I	9640
03.00-04.00	VII	15430
05.00-05.30	I	9640
06.00-07.00	II	15155
08.00-08.30	III	9640
11.00-11.30	I	9640
14.30-15.00	III	15430
French		
07.00-07.30	II	15155
15.30-16.00	III	15430
Japanese		
01.00-02.00	V	9640
09.00-10.00	V	9640
13.00-14.00	V	6065/9640/970
15.00-15.30	V	890*

*) Pusan.

Russian	Area	kHz
21.45-22.00	IV/VI	9640
14.45-15.00	IV/VI	9640
Spanish		
02.30-03.00	VIII	15430
Chinese		
22.00-22.30	IX	9640
08.30-09.00	IX	6065/9640/970
14.00-14.30	VI	9640
15.00-15.30	III	15430
16.45-17.00	IX	710
Korean		
22.30-23.00	VI	9640
	X	15430
01.00-01.30	V	9640
02.30-03.00	VII	15430
04.30-05.00	X	15430

11.00-11.30 I 9640 14.00-14.30 X 15430
09.00-13.00† XI 6065 †) includes VUNC relay
14.00-16.00 XI 6065 12.00-13.00.
NEWS: English: 21.00, 03.00, 05.00, 06.00, 08.00, 11.00, 14.30. **French:** 07.00, 15.30. **Russian:** 21.45, 14.45. **Spanish:** 2.30.

ANN: Korean: "KBS Seoul Choong-ang bang song kuk che il bang song im ni da HLKA" (KBS, this is the first network of Seoul Central Broadc. Station, HLKA). English: "This is the Voice of Free Korea the Overseas of the Korean Broadc. System in Seoul, Korea". **INT-SIG:** Foreign Sce: Korean Folk Music played as Yang-geum with orchestra:



V. by QSL-card or letter — **PUB:** Pamphlet, Pennant free to listeners. "Korean Radio and TV" (English) yearly.

CHRISTIAN BROADCASTING SYSTEM (Non-comm. Indep.)

ADDR: 91 Chongno 2-ka, Seoul. **Te:** 741761 — **L.P:** Dir: E. O. De Camp. Mgr: Y. H. Choi. Dir. Tec: Y. H. Park.
STATIONS:
1) Seoul, 2) Teagu, 3) Pusan, 4) Kwangju, 5) Iri.

	kHz	m	kW		kHz	m	kW
HLKY[1]	840	357	50				
HLKT[2]	1000	300	1	HLKP[3]	1400	214	10
HLCL[4]	1000	300	1	HLCM[5]	1400	214	1

Short Wave: Seoul HLK60 6195kHz 48.43m 1kW.
HOME SCE: Korean: 20.20-15.00 — **N, Wrp:** 21.30, 22.30, 23.30, 02.30, 03.30, 04.30, 05.30, 06.30, 07.30, 09.30, 10.30, 11.30, 12.30, 13.30, 14.30 — **English** (for UN Forces): Sun 00.00-03.00, 12.30-13.00 (Rlg. prgr).
ANN: "This is CBS, The Christian Broadc. System, HLKY, Seoul" — **V,** by letter. Rec. acc. — **FI:** By donations and limited commercials.

RADIO STATION HLKX (Rlg, Educ, Cult.)

ADDR: IPO Box 2673, Seoul. **Te:** 3201316. **Cable:** Team Radio — **L.P:** Acting St. Mgr. and Dir. of Engineering: W. S. Winchell. Dir. of Prgr: L. Bird. Gen. Secr: I. S. Kim.
STATION: 1190kHz 275.2m 50kW.
HOME SCE. in Korean, Chinese, English, Russian: English: 06.00-11.00. **Russian:** 11.00-13.00, 15.10-17.10. **Mongolian:** 13.00-13.10. **Chinese:** 13.10-15.10, 17.10-19.10. **Korean:** 21.00-01.00. **Bilingual** (Korean/English): 01.00-06.00.
ANN: "This is Team Radio Far East, HLKX, a missionary project of the Evangelical Alliance Mission". **V,** by QSL-card or letter. Recordings accepted — **PUB:** ("Tidelines") (quarterly) — **FI:** By contributions and free will offerings.

DONG-A BROADCASTING SYSTEM (Comm.)

ADDR: P.O. Box 250, Seoul. **Te:** (73)5220. **Cable:** Dongailbo — **L.P:** Dir. Gen: S. K. Kim. Dir. Tec: K. W. Shin. Dir. Prgrs: C. B. Choi.
STATION: Seoul 790kHz 379.7m 50kW.
HOME SCE. in Korean: 20.00-15.00. **N:** Every h on the h exc. 05.00, 10.00, 14.00.

HANKUK MUNHWA BROADCASTING CORPORATION (Comm.)

ADDR: 22 Jung-dong, Sudaemoon-ku, Seoul — **L.P:** Pres: J. C. Cho. Dir. Gen: T. K. Yim. Exec. Man. Dir: U. Y. Hwang. Dir. Tec: Y. I. Chun.
STATIONS: *) Key station.

	Call	kHz	kW		Call	kHz	kW
Cheju[1]	HLAJ	770	10	Chonju	HLCX	1140	10
Taegu	HLCT	810	20	Pusan[4]	HLKU	1160	20
Kwangju	HLCN	820	20	Kangnung[5]	HLAF	1290	10
Seoul*	HLKV	900	50	Jinju[6]	HLAK	1320	10
Masan[2]	HLAP	990	10	Mokpo[7]	HLAM	1390	10
Taejon	HLCQ	1110	10	Chunohon[8]	HLAN	1430	10
Ulsan[3]	HLAU	1120	10				

Affiliated st's to MBC R. Network: 1) Namyang Broadc. System — 2) Kyungnam Broadc. Co. — 3) Yungnam Broadc. Co. — 4) Pusan Munhwa Broadc. Corpo — 5) Yungdong Broadc. Co. — 6) Jinju Minbang Corpo. — 7) R. Mokpo Corpo. — 8) Gangwon R. Corpo.
HOME SCE. in Korean: 20.00-16.00 — **V.** by QSL-card and letter.

TONG-YANG BROADCASTING CO. LTD.

ADDR: 58-9 Seosomun-dong, Seoul. **Te:** 23-6193.
L.P: St. Mgr: D. P. Kim. Dir. Tec: D. Choi.
STATIONS: HLKC (Seoul) 640kHz 50kW — HLCD 89.1MHz 1kW.
HOME SCE. in Korean: 20.00-16.00.
N: On the h exc. 21.00, 05.00, 09.00 — **V.** by letter. Rp.

AMERICAN FORCES KOREA NETWORK

ADDR: Headquarters U.S. Army Element, American Forces Korea Network, APO San Francisco 96301, Calif, USA. **Te:** 2936495 — **L.P:** Commanding Officer: Lt. Col. F. B. Tennant. Chief of Production: Ed. Masters. Chief of Engineering: G. J. MacDonald.
STATIONS: 24h.

	kHz	kW		kHz	kW
Seoul[1]	560	5	Osan[3]	1360	1
Taegu[6]	580	5	Unchon[7]	1400	1
Munsan-Ni[4]	580	5	Wonju	1440	1
Pusan[5]	780	5	Kunsan[8]	1440	1
Chunchon	1040	1	Taejon	1480	1
Kwangju	1150	0.25	Chimhae	1510	0.25
Cheju-do	1150	0.25	Kwan Chon	1510	0.05
Kwandae-Ri	1160	0.25	Pohang	1510	0.25
Uijongbu	1160	0.05	Pyangyangdo	1510	0.25
Tongduchon[2]	1200	5			

FM: Seoul[1] 102.7MHz 1kW — Hwaaksan 89.1MHz 0.25kW.
1) "Vagabond"; 2) "Bayonet"; 3) "Comet"; 4) "Tomahawk"; 5) "Homesteader"; 6) "Kilroy"; 7) "Gipsy"; 8) "Mercury", rel. 560kHz Kunsan, Chuncon — **N:** Every h on the h.
ANN: "This is the American Forces Korea Network". Local identification: "This is R. Vagabond in Seoul", etc. **V,** by QSL-card. Re. to Hqs. AFKN, APO 96301, S. Francisco, Calif, USA. Rp.

VOICE OF THE UNITED NATIONS COMMAND (VUNC)

ADDR: 7th Psyop Gp, APO 96248.
STATIONS: Seoul 1100kHz 272.7m 5kW — Kangwha Isl. 1270kHz 236.2m 50kW — Chulwon 1240kHz 241.9m 5kW.
Short Waves (Seoul):
2635kHz 113.9m 0.3kW — 3985kHz 75.28m 0.3kW.
D.Prgr. in Korean: On 1240/1270/2635/3985kHz: 08.00-03.00. On 1100kHz: 08.00-22.00 — **V.** by QSL-card.
PUB: Prgr. schedule yearly.
Note: Certain VUNC prgr's are relayed by KBS on 6015kHz (50kW) at 06.00-07.00 and on 600kHz (500kW) at 20.35-21.00.

KOREAN ARMY RADIOSTATION

ADDR: "Voice of Hope", Seoul: 6170kHz 48.62m 0.5kW.
HOME SCE. in Korean: 20.00-22.30, 00.30-03.00, 06.00-08.30, 12.30-14.00 — **V.** by QSL-card. Re. in English. Rp. preferred.

TAEGU UNIVERSITY RADIO (Priv, non-comm.)

ADDR: Chonggnu University, Teagu — **STATION:** HL2AW 7065kHz 0.01kW — **HOME SCE. in English and Korean:** 08.00-09.00 — **L.L. (English):** 08.30-08.40.

OTHER STATIONS:

Kyong-Nam Broadc. Co, Masan: HLAP 990kHz — **Mamyons Broadc. Co,** Cheju: HLAJ 760kHz — **Pohang Broadc. Co,** Pohang: HLAK 1320kHz — **Radio Mokpo,** Mokpo: HLAS 1390kHz — **Yang-Tong Broadc. Co,** Kangnung: HLAF 1290kHz. **Yang Nam Broadc. Co,** Yugyo-dong 96-18, Ulsan — **L.P:** Dir: Sang Shoo Choi. **Te:** 3011. **Station:** HLAU 850kHz 10kW. — **V.** by QSL-card. Re. in English wanted.

TABLE OF SHORTWAVE STATIONS
to the Summer-Supplement 1970
In order to make this as complete and up-to-date as possible we direct an earnest appeal to **all radio stations using short-wave** to send us regularly their transmission- and/or programme-schedules.

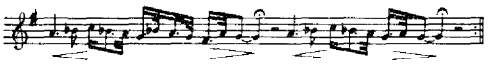
KUWAIT

L.T: GMT+3h — **Pr.L:** Arabic — **EC:** a/c 50 (yes).

KUWAIT BROADCASTING AND TELEVISION SCE. (Gov.)
ADDR: P.O. Box 193, Kuwait. **Te:** 27141. **Cable:** Alirshad — **L.P:** Minister of Guidance and Inf: H. E. Jaber Al-Ali Al-Salem Al-Sabah. Under Secr: Sa'dun Al-Jassim. Asst. Under Secr. (Admin. and Finance): A. A. Samad. Asst. Under Secr. (Broadc.): A. A. Ja'far. Asst. Under Secr. (Eng. Affairs): A. E. Houty. Tec. Adviser: R. Karrer. Eng. i/c BC: Jawad Al-Mazeedi.
STATIONS (G.C: 47.53E/29.16N): mw: 1/10/200kW; sw: 10/50/250kW.

kHz	m	kHz	m	kHz	m	kHz	m
539	556.5	7235	41.47	11940	25.13	17895	16.76
1133	264.8	9520	31.51	15150	19.80	21525	13.94
1345	223.0	11735	25.56	15345	19.55	21590	13.89
4967.5	60.39	11825	25.37	17750	16.90	21745	13.80
6130	48.94	11920	25.17				

HOME SCE. in Arabic: 02.25-07.35, 09.00-21.15 (Fri 02.25-21.15). **During Ramadan:** Arabic to Arab Countries 04.00-07.35, 09.00-19.10 (Fri 04.00-19.10) (during Ramadan 09.00-21.40) on 4967.5/6130/7235/9520/11735/11825/11940/15150/17895/21525/21745kHz.
N.Wrp: 03.00, 04.00*, 05.00, 07.30*, 10.00, 13.00*, 17.00, 19.00*, 21.00 (*=Headlines).
Arabic to Europe: 9.00-11.00 (Fri 07.15-11.00) on 21590 kHz. **English:** 04.00-06.00 (Fri 04.00-07.00) exc. during Ramadan on 1133/4967kHz.
16.00-19.00 on 1133/15345kHz; on 17750kHz to India and Pakistan (also on 11920kHz to Europe).
N: 05.30, 17.30.
ANN: "Huna Itha'at al Kuwait" — **INT-SIG:** "We" an old Kuwaiti tune played on violin.



V. by QSL-card. Rec. acc.

LAOS (Kingdom of)

L.T: GMT+7h — **Pr.L:** Laotian, French — **EC:** a/c 50 (no).

RADIODIFFUSION NATIONALE LAO (Gov.)
ADDR: Veintiane. **Te:** 2457 — **L.P:** Dir. Gen: Mme. Thongsamouth Oudomvilay. St. Mgr: Phimavong. Dir. Tec: S. Southipong. Dir. of Prgr's: M. Chanthasouxad.
STATIONS (G.C: 102.33E/34.08N):
640kHz 468.8m 10kW — 6130kHz 48.94m 25kW.
Reg. st's: 705kHz 425.5m 2kW (Luang Prabang) — 740kHz 405.4m 10kW (Pakse).
HOME SCE. in Laotian, French, Vietnamese: 23.00-02.30, 05.00-14.30 (Sat 15.00) — **N: Laotian** 23.30, 05.30, 12.00. **French** 00.00, 05.45, 12.30. **Vietnamese** 13.30 — **English Lesson:** Thurs/Fri/Sat/Sun 12.45-13.00. **Red Cross Prgr:** Wed 12.45-13.00.
ANN: F: "Ici la Radiodiffusion Nationale Lao" — **INT-SIG:** Music on Khéne, Instrument of Bamboo — **V.** by QSL-card. Rp. Recordings accepted. Reports in English or French — **F.PL:** 50kW.
Vientiane, Local Sce: 950 and 1300kHz 0.3kW.
Vientiane, Lao Armed Forces: 1095kHz.

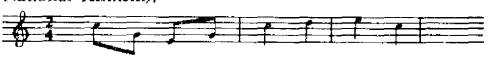
LEBANON

L.T: GMT+2h — **Pr.L:** Arabic, French; English, Spanish, Portuguese — **EC:** a/c 50 (no).

RADIO LEBANON (Gov.)
ADDR: Ministry of Information. Lebanese Broadcasting Station, Beirut. **Te:** 251880. **Cable:** Radio Liban. **Telex:** Minform 899 — **L.P:** Dir. of Broadc: K. Hage Ali. Dir. Tec: J. Rouhayem. Dir. Prgr: C. Menassa. Head of Adm: A. Aoun.
STATIONS (G.C: 35.38E/34.08N):
989kHz 10kW, others 100kW — **FM:** 98.3MHz 3kW.

kHz	m	kHz	m	kHz	m	kHz	m
836	358.9	5980	50.17	11810	25.40	11960	25.08
989	303.3	9545	31.43	11820	25.38		

HOME SCE: Prgr. I (Arabic): On 836kHz 03.55-23.30; On 5980kHz 04.15-07.30, 16.15-18.20; On 9454kHz 09.30-16.00 — **N:** 04.15, and on the h 05.00 to 23.00.
Prgr II (on 989kHz): **French:** 05.00-09.30, 11.00-15.00, 17.00-23.30. **N:** 05.30, 07.00, 08.00, 11.30, 13.00, 14.00, 17.30, 19.55 — **English:** 15.00, 17.00. **N:** 15.00 — **FM:** 98.3MHz: 12.30-22.00 (Music).
English, Arabic, French; 23.00-01.00 on 11810kHz to **FOREIGN SCE:** 18.30-20.30 on 11960kHz to Africa in So. America in Portuguese, Arabic, Spanish; 01.30-04.00 on 11820kHz to No. America and Europe in Spanish, French, Arabic.
N: English 18.30, 02.30. French 20.00, 01.30. Portuguese 23.00. Spanish 00.30, 03.30. Arabic: 19.00, 23.30, 02.00, 03.00.
ANN: Arabic: "Izaat Loubnan Min Beirut", F: "Ici Radio-Liban émmetant de Beyrouth", E: "Lebanon presents the English prgr." Sp: "Aqui Berouth el Libano transmitiende para America del Sur" (or "America del Norte"). P: "Aqui Beyrouth, o Libano falande as Brasil".
INT-SIG: Guitar (opening notes from the Lebanese National Anthem).



PUB: "Majalaat Al Izaat al Loubnaniat", monthly magazine in Arabic, free upon request — **F.PL:** 88.7 and 96.2MHz to operate early 1970.

MACAU (Portuguese China)

L.T: GMT+8h — **Pr.L:** Portuguese, Chinese, Cortar.

EMISSORA DE RADIODIFUSAO DE MACAU (Gov.)
ADDR: Macau. **Te:** 4491-25. **Cable:** ERM.
STATIONS: 1200kHz 0.25kW — **FM:** 98.0MHz 1kW (relay 1200kHz and 900kHz) — **HOME SCE: Portuguese:** 23.00-00.30, 05.00-06.30, 12.00-15.00 — **Chinese:** 09.30-11.30 — **ANN:** "Aqui Emissora de R.difusão de Macau".
V. by letter or QSL-card.

EMISSORA VILA VERDE (Priv.-Comm.)
ADDR: R. Francisco Xavier Pereira 123, Macau. **Cable:** Vila. **Te:** 3355.
STATIONS: 735kHz 408m 10kW — **FM:** 89.0MHz 5W. **HOME SCE:** Chinese: 23.00-16.00 on 735kHz — **INT-SIG:** Chimes — **V.** by letter or QSL-card.

MALAYSIA (Federation of)

L.T: GMT+7½h — **Pr.L:** Malay, English.

RADIO MALAYSIA (Gov.)
ADDR: Dept. of Radio, P.O. Box 1074, Kuala Lumpur. **Te:** 23551. **Cable:** Broadcasts — **L.P:** Dir: Dol Ramli. Dep. Dir: Murtadza Za'ta. Contr. of Prgr's: Hashim Hassan. Chief Eng: Sen Gupta. Publicity Officer: Felix Puerto.
STATIONS: J.B.=Johore Bahru; K.L.=Kuala Lumpur; K.B.=Kota Bahru; K.T.=Kuala Trengganu; M.=Malay; I=Indian; C=Chinese; E=English.

Location	kHz	m	kW	L	Location	kHz	m	kW	L
Ipoh	550	545.5	10	M	K.L.	885	339.0	20	E
J.B.	570	526.3	10	M	J.B.	940	319.1	10	E
K.L.	590	508.5	20	M	K.T.	960	312.5	10	E
Penang	660	454.5	10	M	Malacca	1005	298.5	10	M
K.B.	700	428.6	10	M	Penang	1040	288.5	10	C/I
K.L.	720	416.7	20	C/I	Kuantan	1140	263.2	10	E
Ipoh	740	405.4	10	E	Malacca	1160	258.6	10	E
K.T.	765	392.1	10	M	J.B.	1220	245.9	10	C/I
Kuantan	810	370.4	10	M	Ipoh	1260	238.1	5	C/I
K.B.	840	357.1	10	E	Malacca	1280	234.4	10	C/I
Penang	860	348.8	10	E					

Short Waves: (a) Kuala Lumpur (Kajang), (b) Penang; **G.C:** (a) 101.46E/03.01N — (b) 100.19E/05.25N.

kHz	m	kW	L	kHz	m	kW	L
4790b	62.63	10	M	7200b	41.67	10	M
4845b	61.92	50	I	7220a	41.55	100	*
4985b	60.18	10	E	7295b	41.12	10	E
5965a	50.29	100	M	9515b	31.53	10	M
6025a	49.79	50	C	9660a	31.06	50	E
6100a	49.18	100	*	9710a	30.90	50	M
6175a	48.58	100	*	11900a	25.21	100	*
7110a	42.19	10	C	15280a	19.63	50	*

*)="Voice of Malaysia" (Overseas).
HOME SCE. in Malay, English, Chinese, Indian:
Malay on 550/570/590/660/700/765/810/1005/4790/5965/7200/9515/9710kHz.
D: 22.30-16.30 — **N:** 23.00, 24.00, 01.00, 03.30, 06.00, 09.30, 10.45, 12.30, 14.30, 16.00 — **For Schools:** Mon: 01.30-03.30, 06.30-08.30; Tues/Thurs: 01.30-02.30, 06.30-07.30; Wed: 01.30-03.00, 06.30-09.00.
English on 740/840/860/885/940/960/1140/1160/4985/9660/7295kHz. Mon-Fri 22.30-01.30, 05.30-06.30, 09.30-16.30. Sat: 22.30-01.30, 05.30-16.30, Sun. 22.30-16.30 —

RADIO MALAYSIA

FEDERAL HOUSE
P.O. BOX 1074
KUALA LUMPUR

Telephone: 23551/5
Cable: Broadcasts Kuala Lumpur

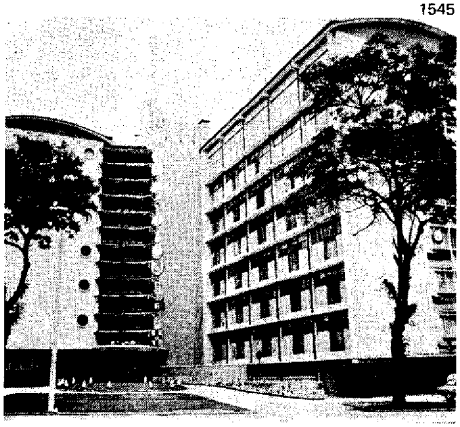
Ini-lah
SUARA MALAYSIA!
THE VOICE OF MALAYSIA
informs
entertains
educates

The Voice of a Friendly People
invites you to
listen to its Overseas Service

ON:
49 metres
(6175 kc/s & 6100 kc/s)
41 metres
(7220 kc/s)
25 metres
(11900 kc/s)
and
19 metres
(15280 kc/s)

IN:

Language	*GMT*	*kc/s*	*News*
INDONESIAN	2315-0100	6100, 6175, 7220	2330 0030
ENGLISH	0625-0855	15280, 11900, 6175	0630 0830
INDONESIAN	0900-1100	15280, 11900, 6175	0902 1045
MANDARIN	1105-1255	15280, 11900, 6175	1130 1230
INDONESIAN	1300-1700	15280, 11900, 6175	1330 1545



N: 23.30, 00.30 06.00, 09.30, 11.00, 14.00, 16.00 — **For Schools:** Mon-Wed: 01.30-03.00, 06.30-07.30, 08.30-09.00; Thurs: 01.30-02.00, 08.30-09.30.
Chinese on 720/1040/1220/1260/1280/6025/7110kHz: Mon-Fri: 22.55-01.30, 04.30-05.45, 08.30-10.30, 12.00-16.30. Sat/Sun: 22.55-16.20 — **N:** 23.00, 23.30, 24.00, 00.30, 04.35, 05.20, 05.35, 09.30, 12.30, 13.30, 14.30, 15.20, 16.00 — **For Schools:** Mon/Tues/Wed: 01.30-02.30, 07.30-08.30.
Indian on 720/1040/1220/1260/1280/4845kHz Mon-Fri: 22.00-00.30, 05.45-07.30, 09.00-15.30; Sat: 02.00-03.30, 05.45-15.30; Sun: 22.00-15.30 — **N:** 22.45, 24.00, 06.00, 09.30, 11.30, 15.15 — **For Schools:** Mon/Wed/Thurs: 03.00-04.00, 07.30-08.30.

OVERSEAS SERVICE (Voice of Malaysia) on 6100/6175/7220/11900/15280kHz:
English: 06.25-08.55. **N:** 06.30, 08.30 — **Indonesian:** 23.15-01.00, 09.00-11.00, 13.00-17.00. **N:** 23.30, 00.30, 09.02, 10.45, 13.30, 15.45 — **Mandarin:** 11.05-12.55. **N:** 11.30, 12.30.

ANN: Malay: "Ini-lah R. Malaysia". E. "This is R. Malaysia" — **INT-SIG:** First bar of National Anthem "Negara Ku" (Chimes) — **V.** by QSL-card and letter. Recordings accepted — **F.PL:** 1×250 kW sw-tr for Overseas Sce. at Kajang; 3×50kW medium Wave tr's at Johore Bahru — **PUB:** Prgr. sched. for Home Sce. (Malay, English, Mandarin, Tamil) and Overseas Sce. (Indonesian, Mandarin, English) weekly. **FI:** By state and adv. — **ALF:** $12,- — **EC:** a/c 50 (yes).

BBC FAR EASTERN STATION

Addr: P.O. Box 416, Johore Bahru, Malaysia.
STATIONS (G.C: 103.48E/01.32N) (Tr. located at Tebrau):

kHz	m	kHz	m	kHz	m	kHz	m
3915	76.64	7235	41.47	11750	25.33	15310	19.60
6010	49.92	9570	31.35	11850	25.32	15435	19.44
6080	49.34	9580	31.32	11955	25.09	17880	16.78
7120	42.13	9725	30.85				

Relays of BBC World Service and Sce's to Asia in Bengali, Burmese, Chinese, Hindi, Indonesian, Japanese, Nepali, Sinhala, Tamil, Thai, Urdu and Vietnamese—For full schedule see BBC entry under Great Britain.
V: The BBC welcomes reception reports, which are acknowledged with a special card. Re. to C.E.X.B, British Broadcasting Corporation, Bush House, London, W.C.2. Recordings accepted.

R. RAAF BUTTERWORTH (Mil)

ADDR: RAAF Base, Butterworth, c/o GPO, Penang. **Te:** 32101 — **L.P:** Secr: Mrs. S. A. McKenzie.
STATION: 1445kHz 207.6m 0.1kW.
D. PRGR'S in English: Mon-Thurs 22.30-16.00; Fri 22.30-17.30; Sat 23.00-17.30; Sun 23.00-16.00.
ANN: "This is Radio RAAF Butterworth, the Voice of the Royal Australian Air Force in Malaysia".

REDIFFUSION (MALAYA) LTD.

Kuala Lumpur (Headquarters): P.O. Box 570. **Te:** 81941. **Cable:** Redifuse. **L.P:** Man. Dir: J. S. Snowden, Gen. Mgr: M. J. Bleeck — Two simultaneously wired broadc. networks. Originating own prgr's and rel. "R. Malaysia", BBC, etc. — **Penang:** P.O. Box 559. **Te:** 61761. **Cable:** Redifuse. Gen. Mgr: M. J. Bleeck. Two simultaneously wired broadc. networks. Originating own prgr's and rel. "R. Malaysia", BBC, etc. — **Ipoh:** 127 Jalan Pasir Putch, Ipoh, Perak. **Te:** 72173. Gen. Mgr: M. J. Bleeck. Two simultaneously wired broadc. networks. Originating own prgr's and relaying Rediff. Kuala Lumpur, R. Malaysia, BBC, etc.

MALDIVES (Rep. of)

L.T: GMT+5h — **Pr.L:** Maldivian.

RADIO MALDIVES (Gov.)

ADDR: Male. **Te:** 340 — **L.P:** Dir: N. T. Hassan Didi.
STATIONS (Coverage: Ceylon, India, Pakistan):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1507	199.1	7	4740	63.29	30	7225	41.52	2.7
3331	90.06	15	6150	48.78	2.7	9538	31.45	15

HOME SCE: Divehi (Maldivian): 01.00-03.00 on 7225 kHz, 03.00-05.00 on 6150kHz, 05.00-07.00 on 1507kHz, 07.00-09.00 on 9538kHz, 09.00-11.00 on 7225kHz, 11.00-13.00, on 6150kHz, 13.00-15.00 on 3331kHz, 15.00-17.30 on 1507kHz — **N:** 02.30, 08.30, 14.30. **Rel. BBC** (English): 09.00 — **English Sce:** 15.15-17.30 on 4740kHz.
ANN: "Radio Maldives" — **V.** by QSL-card. Re. to be sent to Dept. of Inf. and Broadc. — **ALF:** Rs. 12.00.

MONGOLIA (People's Rep.)

L.T: GMT+8h — **Pr.L:** Mongolian.

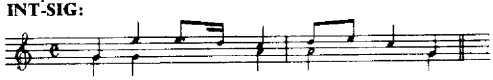
ULAN BATOR RADIO (Gov.)
ADDR: CPO Box 365, Ulan Bator. **Cable:** Mongolian Radio — **L.P:** Dir. of Foreign Rel: B. Dagva,
STATIONS: Ulan Bator and Bain-Ulgei.

kHz	m	kW	kHz	m	kW	kHz	m	kW
209	1435	60	6105	49.14	5	9540	31.45	50
227	1321	150	6170	48.62	5	9575	31.33	50
3972	75.52	25	6383	48.00	50	10650	28.17	5
4085	73.44	50	7120	42.13	5	11810	25.40	50
4762	63.00	50	7260	41.32	50	11850	25.32	50
5052	59.38	50	7340	40.87	50	11860	25.30	25
5960	50.34	50						

HOME SCE: 1st Prgr: 21.55-13.50 on 227/4085/5052/7260/11850kHz. **2nd Prgr:** 09.00-12.10 on 6183/5960kHz.

FOREIGN SCE: English (to Far East and So. Ea. Asia): D exc. Mon 22.00-22.30 on 9540/11810/11860kHz, 12.20-12.50 on 7340/9540kHz. **N:** 22.00, 12.20 — **Chinese:** D 13.00-14.00 on 7120/10650kHz — **Mongolian:** 12.30-13.30 (Wed/Fri) on 6383/7260kHz.

ANN: "Ankarari Ulanbatras Jarsj Baina" (Attention: This is Ulan Bator Calling) — **V.** by letter. Recordings accepted.
INT-SIG:



MUSCAT & OMAN

BBC EASTERN RELAY (Masirah Island)
2×750kW transmitters. Relays of BBC Arabic, Hindi, Persian, Urdu and World Services on medium-wave 700, 701 and 1410kHz.

NEPAL

L.T: GMT+5.40h — **Pr.L:** Nepali — **EC:** a/c 50 (no).

RADIO NEPAL (Gov.)
ADDR: Dept. of Broadc, His Majesty's Go. of Nepal, Katmandu. **Te:** 11569.
STATIONS (G.C: 85.20E/27.45N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
790	379.7	10	7105	42.22	5			
1500	200.0	0.25	7165	41.87	100	11970	25.06	100/5

HOME SCE: 02.20-04.20 on 1500/7105/11970kHz, 07.20-09.20 on 790/7165kHz, 13.20-16.50 on 790/7165/11970 kHz. **N. in English:** 03.05, 15.00. **N. in Nepali:** 02.40, 13.50.
ANN: Nepali: "Yo R. Nepal Ho". Newari: "Tho R. Nepal kha". English: "This is R. Nepal" — **INT-SIG:** Instruments used: Conch-Shell, Violin, Piano and Jal-Tarang — **V.** by QSL-card. Rp. — **AD:** Between 07.20-09.20.

PAKISTAN

L.T: We. Pakistan: GMT+5h; Ea. Pakistan GMT+6h. **Pr.L:** Urdu, Bengali — EC: a/c 50 (no).

RADIO PAKISTAN (Gov.)
ADDR and L.P. 1st Addr: Ferozsons Bldg, Harding Rd, Rawalpindi — **L.P:** Joint Dir. Gen: M. Iqbal. Dep. Dir. Gen: K. G. Ali. Dir. of Educ. Broadc: A. H. Kaleem. Dir. of Adm: A. A. Hanafi. Dir. of Publicity Co-ordination: M. Yousuf Bangash. Dir. of Prgr. Planning: A. H. Azmi.
2nd Addr: Pak. Secretariat No. 4, Chaklala, Rawalpindi. **L.P:** Chief Eng: S. A. Aziz. Dep. Chief Eng. (II): M. G. Baig. Dep. Chief Eng. (III): Irganullah. Installation Eng: Saleem Ahmed.
3rd Addr: 71 Garden Rd, Karachi — **L.P:** Dep. Dir. Gen: Zafar Hussain, TQA. Dir. of Liaison: Omer Mohajir. Research Eng: Sajid Hasan.
4th Addr: Block No. 73, Pak. Secretariat, Karachi. **L.P:** Dep. Chief Eng. (I): M. A. Rahman. Dep. Chief Eng. (IV): I. A. Ansari. Maintenance Eng: B. M. Adbikari. Installation Eng's: Amanullah/Abdul Hanif.
5th Addr: Implementation Cell, c/o Reg. Dir. Radio Pakistan, Dacca — **L.P:** Installation Eng: M. Habibullah.
6th Addr: Broadc. House, Bunder Rd, Karachi — **L.P:** Dir. of N: K. S. H. Ansari, CIS. Dir. of External Scs: Saleem A. Gilani. Dir. of Transcription Sce: Abu Saeed Qureshi. Dir. of Monitoring: S. A. Aziz Razvi, CIS.

STATIONS: Medium Waves:

	kHz	m		kHz	m
Peshawar	580	517.2	Rangpur	1050	285.7
Lahore I	630	476.2	Rajshahi	1080	277.7
Dacca II	690	434.8	Lahore II	1090	275.2
Quetta	750	400.0	Sylhet	1140	263.2
Karachi I	830	361.4	Rawalpindi	1150	260.8
Chittagong	870	344.8	Dacca I	1170	256.4
Hyderabad	1010	297.0	Karachi II	1450	206.9

Short Waves: Karachi 10/50kW (G.C: 67.00E/24.55N):

kHz	m	kHz	m	kHz	m	kHz	m
6070	49.42	7275	41.24	11672	25.70	15360	19.53
6170	48.62	7340	40.87	11705	25.63	15415	19.46
6235	48.11	9465	31.69	11885	25.24	17770	16.88
7125	42.11	9560	31.38	15100	19.87	17800	16.85
7135	42.05	9645	31.10	15235	19.69	17935	16.73
7215	41.58	9700	30.93	15325	19.58	17945	16.72
7235	41.47	9750	30.77	15335	19.57	21590	13.90
7240	41.44	9755	30.75				

Islamabad 100kW (G.C: 73.12/33.27N):

kHz	m	kHz	m	kHz	m	kHz	m
9510	31.55	11705	25.63	15355	19.54	15380	19.50

Dacca 7.5/10/100kW (G.C: 90.25E/23.45N):

kHz	m	kHz	m	kHz	m	kHz	m
5985	50.13	11672	25.70	15455	19.41	21685	13.83
7260	41.32	11805	25.41				

Peshawar 10kW (G.C: 71.30E/34.00N):

kHz	m	kHz	m
4950	60.60	7170	41.84

Quetta 10kW (G.C: 67.00E/30.10N):

kHz	m	kHz	m	kHz	m
3915	76.63	7215	41.58	5965	50.29

Rawalpindi 10kW (G.C: 73.00E/33.30N): 7110kHz 42.19m.

MEDIUM WAVE PROGRAMMES
Karachi (Urdu, English, Bengali): 01.30-03.30, 06.00-19.00 (Sun 01.30-19.00) — **Lahore** (Urdu, English, Punjabi): 01.30-03.30 (Sun 05.00), 06.00-11.00, 11.30-19.00 — **Rawalpindi** (Urdu, English, Potohari): 01.30-03.30 (Sun 05.00), 06.00-08.30, 10.45-17.30 — **Peshawar** (Urdu, English, Pushto): 01.30-03.30 (Sun 04.30), 06.00-08.30, 11.30-17.30. **Hyderabad** (Urdu, English, Sindi): 01.30-03.30 (Sun 08.30), 06.00-08.30, 11.30-17.30 — **Quetta** (Urdu, Baluchi, Pushto, Brahvi, English): 01.30-03.30 (Sun 08.30), 06.00-08.30, 11.30-17.30 — **Dacca** (Bengali, Urdu, English): 01.00-03.00, 06.00-09.00 (Sun 01.00-09.00), 10.30-17.30 — **Chittagong** (Bengali, Urdu, English): 01.00-03.00, 06.00-09.00 (Sun 01.00-03.30), 10.30-17.10 — **Rajshahi** (Bengali, Urdu, English): 01.00-03.00, 06.00-09.00 (Sun 01.00-03.30), 10.30-17.15 — **Sylhet and Rangpur** (Bengali, Urdu, English): Relays Dacca from 06.00-09.00, 10.30-17.10.
Abbreviations: K=Karachi, L=Lahore, R=Rawalpindi, P=Peshawar, Q=Quetta, D=Dacca, H=Hyderabad, Ra=Rajshahi, C=Chittagong, S=Sylhet, Ran=Rangpur.
NEWS: English (Nat): 02.10. 08.10, 15.00, K,H,L,R,P,Q,D,C,Ra (at 15.00-15.15 also Ran and S) — **Urdu** (Nat): 02.00, 06.05, 08.00, 12.00, 14.45, 17.05, K,H,L,R,P,Q,D,C,Ra (12.00, 14.45, 17.05 also S and Ran); **Urdu** (local): 13.15K, 13.20H, 12.20L,R, 12.30P, 12.55 Q,D,S,Ran,Ra — **Bengali** (Nat): 01.45, 06.00, 08.05, 12.10, 14.00, 17.00K,H,L,R,P,Q,D,C,Ra (14.00 S and Ran); **Bengali** (local) 12.50D,S,Ran,Ra,C — **Pushto** Nat): 02.50K,P,Q, 08.20P, 12.20P,Q; **Pushto** (local) 00.30Q, 13.35P — **Sindi** (Nat): 02.50, 12.20 H (13.15H local) — **Baluchi** (Nat): 03.00, 13.00 (13.10 local) Q,K — **Kashmiri:** 12.35K.

SHORT WAVE PROGRAMMES:
Karachi to West Pakistan: 01.30-03.30 on 6070/7135 kHz, 03.45-11.30 on 7135/9645kHz, 12.00-12.30 on 7125/9645kHz, 13.00-13.10 on 7275/6070kHz, 14.15-15.45 on 7340/9755kHz, 17.00-17.10 on 6170/7235kHz.

01.30-01.45 Rlg. Prgr.	06.00-06.05 N. in Bengali
01.45-02.00 N. in Bengali	06.05-06.10 N. in Urdu
02.00-02.10 N. in Urdu	06.10-07.00 Karachi Prgr.
02.10-02.20 N. in English	07.00-08.00 Comm. Sce.
02.20-02.30 Rlg. Prgr.	08.00-08.05 N. in Urdu
02.30-02.35 Nat. Prgr.	08.05-08.10 N. in Bengali
02.35-02.50 Karachi Prgr.	**08.10-08.15 N. in English**
02.50-03.00 N. in Pushto	08.15-08.20 Comm. Sce.
03.00-03.10 N. in Baluchi	08.20-08.30 N. in Pushto
03.10-03.30 Karachi Prgr.	08.30-11.30 Comm. Sce.
03.45-06.00 Karachi Prgr.	12.00-12.10 N. in Urdu

Karachi to West Pakistan

12.10-12.20	N. in Bengali	**15.00-15.15**	**N. in English**
12.20-12.30	N. in Pushto	15.15-15.20	N. Review in Urdu
14.15-14.45	Nat. Hookup (or Karachi Prgr.)	15.20-15.45	Nat. Hookup
		17.00-17.05	N. in Bengali
14.45-15.00	N. in Urdu	17.05-17.10	N. in Urdu

Karachi to East Pakistan: 01.30-03.30 on 11885/15335 kHz, 05.15-08.15 on 17770/21590kHz, 12.00-12.20 on 17800/21590kHz, 14.00-15.45 on 15325/17935kHz, 17.00-17.10 on 11705/15100kHz.

01.30-01.45	Rlg. Prgr.	12.00-12.10	N. in Urdu
01.45-02.00	N. in Bengali	12.10-12.20	N. in Bengali
02.00-02.10	N. in Urdu	14.00-14.15	N. in Bengali
02.10-02.20	**N. in English**	14.15-14.45	Nat. Hookup (or Karachi Prgr.)
02.20-02.30	Rlg. Prgr.		
02.30-02.35	Nat. Prgr.		
02.35-03.30	Karachi Prgr.	14.45-15.00	N. in Urdu
05.15-06.00	Karachi Prgr.	**15.00-15.15**	**N. in English**
06.00-06.05	N. in Bengali	15.15-15.20	N. Review in Bengali
06.06-06.10	N. in Urdu		
06.10-07.00	Karachi Prgr.	15.20-15.45	Nat. Hookup/ Karachi Prgr.
07.00-08.00	Comm. Sce.		
08.00-08.05	N. in Urdu	17.00-17.05	N. in Bengali
08.10-08.15	**N. in English**	17.05-17.10	N. in Urdu

Kashmiri Sce. (from Karachi): 12.35-13.20 on 7240/9750kHz — **Inter Wing Sce.** (from Islamabad): 01.30-03.30 (Sun 05.00) on 15380/11705kHz, 11.30-13.45 on 15355kHz, 14.00-17.30 on 9510kHz — **Inter Wing Sce.** (from Dacca): 01.00-03.00 (Sun 03.30) on 15520kHz, 10.30-13.00 on 15520kHz, 13.15-17.10 on 11650kHz.

ZONAL SERVICES:

Dacca:	**kHz**
01.00-03.45	5985
04.00-09.00	7260
10.30-13.00	7260
13.15-17.10	5985
To We. Pakistan:	
01.00-04.15	11805
04.30-09.00	**21685**
10.30-13.30	**15455**
13.45-17.10	**11672**

Peshawar:	
01.30-04.30	4950
06.00-08.30	7170
11.30-14.00	7170
14.15-17.30	4950
Quetta:	
01.30-03.45	5965
04.00-08.30	7215
11.00-14.00	7215
14.15-17.30	5965
Rawalpindi:	
10.45-11.45	7110

EXTERNAL SERVICES

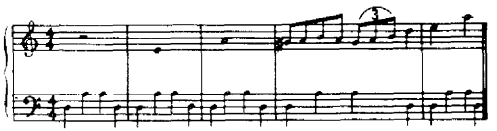
I=So. Ea. Asia; II=So. Ea. Africa; III=GOS (Far East); IV=Indonesia; V=Burma; VI=South Asia; VII=GOS (Middle East); VIII=Afghanistan/Iran; IX=Iran; X=Arabic Countries; XI=Turkey; XII=United Kingdom.

Time	**Sce.**	**kHz**	**Beams**	**Language**
00.30-01.15	I	11672,15360	96°	**English**
03.45-05.00	II	15360,17945	232°	Urdu/Gujrati/ **English**/Swahili
08.30-08.45	III	17945,21590	96°/120°	**English**
08.45-09.30	IV	17945,21590	96°/120°	Indonesian/ **English**
09.45-10.30	V	17945,21590	96°	Burmese
10.45-11.45	VI	9560,11672	120°	**English**/Tamil/ Hindi
13.35-13.50	VII	15235,15415	290°/312°	
		17945,21590	300°/317°	**English**
16.00-16.45	VIII	6235,7215	20°/312°	**English**/Afghan/ Persian/Turkish
16.00-16.45	IX	7275,9700	300°/22°	Persian
17.30-18.30	X	17945,15235	300°	Arabic
18.45-19.30	XI	9465.11672	317°	**English**/Turkish
19.45-20.30	XII	9645,11672	317°	**English**

N. in English: 00.30, 04.40, 08.30, 09.00, 10.45, 13.35, 19.00, 20.05.

ANN: E: "This is Radio Pakistan calling listeners in (name of target country).

INT-SIG:



V. by QSL-card — **PUB:** Monthly "Pakistan Calling in English, Urdu, Bengali (fortnightly); monthly in Arabic, Persian, Burmese.

PHILIPPINES

L.T: GMT+8h — **Pr.L:** English, Tagalog, Hocano, Visayan.

RADIO CONTROL OFFICE

Dept. of Public Work and Communications, Manila.

STATIONS: Short Waves: Location Manila exc. where indicated. *) inactive.

Call	**kHz**	**m**	**kW**	**Name and h. of tr.**
1) DYB4	*3277	91.55	0.3	Mascom Network, Dumaguete City
2) DUB4	3286	91.29	2.5	Philippine Broadc. Sce: 21.00-15.00
3) DZCA	3305	90.77	1	Nat. Civil Defense Adm: 08.00-11.00
4) DZB2	3345	89.58	1	Far East Broadc. Co: 20.30-24.00, 09.00-14.30
5) DZB3	3945	76.05	0.5	Notre Dame Broadc. Corp, Cotabato City: 22.00-14.00
6) DZB6	4945	60.67	0.5	Nat. Teachers' College: W 09.30-11.00, Sun 01.00-03.00
3) DZCA	5970	50.25	1	Nat. Civil Defense Adm: 08.00-11.00
4) DZH6	6030	49.75	2	Far East Broadc. Co: 20.30-16.15
1) DYH4	6055	49.55	0.25	Mascom Netw, Dumaguete City: 21.00-14.00
4) DZF4	6120	49.02	50	Far East Broadc. Co: 21.45-22.45
2) DUH2	6170	48.62	50	Philipp. Broadc. Sce: 21.00-16.00
8) DUH9	7160	41.90	1	Univ. of the Philippines, Quezon City: 09.00-13.00
9) DZMT	7180	41.78	1	Associated Broadc. Corpo, Manila
4) DZI9	7225	41.52	2	Far East Broadc. Co: 21.45-23.15, 13.45-17.45
4) DZ19	7230	41.49	3/50	Far East Broadc. Co: 08.15-11.30, 11.30-13.45
10) DXH2	7280	41.21	0.5	Mindanao Broadc. System, Davao City: 23.00-08.00
4) DZH7	9505	31.56	50	Far East Broadc. Co:
2)	9580	31.32	7.5	Philippine Broadc. Sce: 03.00-04.00, 09.00-14.00
1) DZU5	9630	31.15	50	SEARV, Manila: 23.30-01.30 (test)
11) DZH5	9690	30.96	0.25	R. Veritas, Manila: 21.00-04.00, 09.00-15.00
4) DZF5	9715	30.89	10/50	Far East Broadc. Co: 21.45-23.30, 10.00-11.00, 14.00-17.45
11)	11830	25.36	100	R. Veritas, Manila: 10.30-13.00
4) DZH8	11855	25.31	50	Far East Broadc. Co: 22.45-23.25, 10.30-12.45, 16.15-17.45
1) DZU6	11875	25.26	50	SEARV, Manila: 01.00-02.00, 13.45-14.45 (test)
4) DZE9	11920	25.17	50	Far East Broadc. Co: 09.00 (Sun 08.15)-10.30
4) DZF2	11920	25.17	50	Far East Broadc. Co: 21.45-23.30, 09.45-16.15
2)	11950	25.10	50	Philippine Broadc. Sce: 03.00-04.00, 09.00-14.00
11)	15170	19.78	100	R. Veritas, Manila: 10.00-14.00
4) DZH9	15300	19.60	10/50	Far East Broadc. Co: 23.45-02.00, 08.45-16.15
4) DZF3	15385	19.50	50	Far East Broadc. Co: 23.30-01.00, 08.15-09.30
4) DZF9	15390	19.49	50	Far East Broadc. Co: 01.00-03.00
1) DZU7	15420	19.46	50	SEARV, Manila: 10.45-12.45
4) DZF8	15440	19.43	50	Far East Broadc. Co: 23.15-05.30, 12.45-16.30
1) DZU8	17715	16.93	50	SEARV, Manila: 09.45-10.30, 13.45-14.45 (test)
4) DZI6	17810	16.84	2/50	Far East Broadc. Co: 21.45-23.45, 00.00-05.30 (Sun 06.00), 08.15 (Sun 06.45)-09.30
4) DZI8	21515	13.94	2	Far East Broadc. Co: 01.00-05.30 (Sun 06.45)

Medium Waves

	kHz	kW	Call
12)	530	1	DZXR
13)	540	1/0.5	DZYZ
12a)	540	10	DZWT
14)	540	1	DZWT
3)	550	1	DZCA
3)	550	1	DYCI
3)	550	1	DYCH
15)	550	2.5	
13)	560	1	DZCI
16)	560	1	DZAA
15)	560	5/1	
15)	560	1	DXBR
17)	560	1	
18)	570	10	DYCB
19)	570	2.5	DZAG
20)	580	10	DZBB
21)	590	5	DXDC
21)	590	1	DZHB
22)	590	1	
19)	600	5	DZAX
24)	600	1	DZVV
23)	600	10	DYRC
25)	610	1	DXMB
30)	620	50	DZXL
19)	630	1	DZRL
26)	630	5	DYAG
21)	630	5/1	DXBC
25)	630	1	
18)	640	10	DXAW
15)	640	1	DZWO
7)	650	10	DZRH
28)	650	1	DXOR
18)	660	1	DXLC
29)	660	1	DZXI
25)	660	1	DYBC
13)	670	2.5	DXRD
30)	670	1	DYPL
4)	680	40	DZAS
18)	690	1	DZBL
19)	690	1	DXDX
19)	690	1	DZTG
2)	690	0.5	DXLM
31)	690	5	
30)	700	1	DXCL
24)	700	1	DZLU
2)	710	10	DZFM
24)	710	10/5	DXRA
21)	720	1	DXIC
32)	720	1	DZGB
13)	720	1	DZYI
21)	720	1	DYHB
33)	730	1	DYBR
5)	730	1	DXND
34)	730	1	
35)	730	2.5	DZQR
10)	740	5	DXMC
37)	740	1	DZCV
36)	740	5/1	DYWC
18)	750	5	DZRB
37)	750	1	DXGS
13)	750	1	
38)	750	1	
7)	760	1	DZMB
13)	760	1	DXRI
39)	760	1	
40)	770	1	DZJC
10)	770	1	DXMZ
41)	770	1	DYPR
38)	770	1	DYRR
38)	770	1	
21)	780	10	DXCC
35)	780	2.5	DXDO
42)	780	1	DZRJ
13)	780	5/1	
13)	780	1	
35)	780	1	DZZR
43)	790	1	DZAB
27)	790	1	DYVL
16)	790	1	DZXE
9)	790	1	
44)	790	1	
45)	800	5	DZPI
24)	800	5	DYFM
13)	810	1	DZSP
10)	810	1	DXMI
10)	810	1	DXMM
46)	810	1	DZYN
45)	820	1	DYBU
12)	820	1	DZYB
29)	830	5	DZQL
13)	830	1	DXRB
1)	840	10	DYSR
24)	840	1	
37)	850	5	DZGE
10)	850	1	DXMY
11)	860	50	DZRV
25)	860	1	DYOG
30)	870	1	DYXL
21)	870	1	DXVM
18)	870	1	DYQL
9)	870	1	DZBT
5)	880	10	DXMS
13)	880	1	DZTC
37)	890	5/1	DZRC
20)	890	1	DZXX
15)	890	1	
10)	900	1	DXUM
16)	900	1	DZAD
21)	900	5	DYHP
30)	910	1	DXLI
25)	910	1	DYHF
10)	910	1	DXMX
2)	920	50	DZRP
9)	930	10	DXMT
24)	930	1	
46)	940	5	DZTD
1)	940	1	DYCR
13)	940	1	DXRO
47)	940	1	DZVS
10)	950	1	DXRZ
10)	950	1	DXMO
18)	960	50	DZAQ
31)	970	1	DYMB
10)	970	1	DXMN
13)	980	1	DXYZ
12)	980	0.5	DZXM
26)	980	1	DXGE
32)	980	1.5	DZGM
41)	990	1	DYRP
48)	990	0.5	DXWB
19)	990	0.5	DZAH
15)	990	1	
18)	1000	10	DZMM
21)	1000	1	DXHP
30)	1010	5	DXJW
13)	1010	5	DZRD
41)	1010	1	DYRO
38)	1010	1	DZSJ
49)	1010	1	DZFA
24)	1020	1	DZWX
20)	1020	1	DYSS
18)	1020	1	DZQM
50)	1020	1	
4)	1030	1	DZFE
51)	1030	1	DYXT
41)	1030	1	
24)	1040	5	DZDR
18)	1040	5	DZRI
7)	1040	0.5	DYMS
52)	1040	1	
50)	1050	5/1	DZEC
25)	1050	2.5	DXLL
53)	1050	1	DYSA
24)	1060	5	DZVR
4)	1060	1	DXKI
35)	1060	1	DYMC
46)	1070	10	DZWS
25)	1070	1	DYWX
25)	1070	1	
26)	1080	1	DXVA
54)	1080	1	DYMX
50)	1080	1	
50)	1080	1	
50)	1080	1	
10)	1090	1	DXCM
24)	1090	1	DYVP
46)	1100	10	DZMT
50)	1100	1	
56)	1100	1	
31)	1110	1	DXRC
57)	1110	1	DYHR
58)	1110	3	
41)	1120	1	DYRM
37)	1120	1	DZXT
35)	1120	1	
21)	1130	10	DZHP
25)	1130	1	DYOR
59)	1150	1	DYRD
50)	1150	1	DZEL
10)	1160	1	DXMV
18)	1160	5	DZYL
10)	1160	1	DXMW
41)	1160	1	
24)	1170	5	DZWN
35)	1170	5	DZWJ
25)	1170	1	DYLL
55)	1180	5	DYRF
2)	1190	0.5	DZRM
49)	1190	5	
37)	1200	1	DZEB
41)	1200	1	DYRH
38)	1200	1	DXRS
26)	1210	5	DZNL
60)	1210	1	DXSY
2)	1210	1	DZMQ
7)	1210	0.25	DZLB
35)	1210	10	
61)	1220	1	DYRV
2)	1220	1	DXSM
24)	1220	1	
32)	1220	1	
43)	1230	1	DZSA
25)	1230	1	DZAL
25)	1230	1	DXCB
15)	1230	1	
62)	1240	5	DZLT
56)	1240	1	DYUL
9)	1240	1	
57)	1240	1	
24)	1250	5	DZTR
32)	1250	1	
63)	1260	5	DYVM
24)	1270	1	DZVX
24)	1270	5	DZYE
26)	1270	0.5	DZBW
49)	1270	1	
19)	1280	10	DZRR
25)	1280	5	DYRI
12)	1290	1	DZYQ
25)	1290	1	
35)	1300	1	DZNN
31)	1300	10	
64)	1300	1	
20)	1310	1	DZFF
25)	1310	1	DYML
49)	1310	1	
25)	1320	1	DYRX
65)	1320	1	DZYV
9)	1320	1	
13)	1320	1	
57)	1320	1	
66)	1330	1	DYVN
57)	1330	1	DZYG
25)	1330	1	
30)	1340	5	DZMY
25)	1340	1	
12)	1350	2/1	DZYS
12)	1350	1	DZYR
2)	1350	1	DXRP
50)	1350	1	
25)	1360	5	DYRL
67)	1360	1	DZRA
12)	1360	0.5	DZXQ
68)	1370	2.5	DYVR
19)	1370	0.5	DZBS
9)	1380	10	DZTM
69)	1390	1	DXRM
57)	1390	1	DZZL
25)	1390	1	
12)	1400	0.5	DZYA
32)	1400	2.5	
2)	1410	1	DYMR
7)	1410	5	DZUP
35)	1420	1	DZOR
41)	1420	1	DYRS
70)	1420	1	DZDL
14)	1430	1	DZLM
4)	1430	1	DXAS
71)	1430	1	
20)	1440	1	DYOO
49)	1440	1	DZSU
15)	1440	1	
24)	1450	1	
72)	1460	10	DZBU
4)	1460	1	DXJO
26)	1470	5	DYWN
25)	1480	1	DYKR
25)	1480	1	DZGK
43)	1480	1/0.5	DZJS
47)	1480	1	DZHG
37)	1490	1	DXOC
73)	1490	0.5	DYAV
13)	1490	1	
2)	1500	0.5	DZAF
24)	1500	1	
2)	1510	1	DZEQ
74)	1520	5	DZEM
20)	1520	1	DYBB
17)	1530	1	DZAR
49)	1530	1	
26)	1540	5	DZME
75)	1550	10	DYLA
76)	1560	0.5	DZAT
20)	1570	1	
49)	1570	1	
35)	1580	5	DZSE
77)	1580	0.5	DZFU
78)	1590	1	DYDR
1)	1600	10	DZCH

Short Waves:

1) DYSR, DYCR, Dumaguete City; DZCH (Head Office of Network), P.O. Box 4148, Manila. **L.P:** Dir. Gen: J. William Matthews (Exc. Dir. Mass Media Commission). St. Mgr. and Dir. Tec: (DYSR/DYCR): B. Magdamo. St. Mgr. (DZCH): J. Pia Jr. **D.Prgr:** On DYSR/DYH4: 21.00-14.00. **N. in English:** 22.45, 04.15, 12.00. **N. in Visayan:** 22.00, 10.00: On DZCH: 21.00-14.00 — **Ann:** "This is DZCH of the MCN, Mascom Netw. in Manila, 1600 AM and 102.5 FM. The Choice Sound around town". **V.** by letter and prgr. schedule. Rec. acc.

1) **South East Asia Radio Voice (SEARV) (Rlg.)** **Addr:** P.O. Box 4148, Manila. **Cable:** Interchurch. **Studios:** 10 Salemba, Djakarta IV/3, Indonesia; 82nd St, Mandalay, Burma; 14 Pramuan, Bangkok, Thailand; 191 Prince Edward Rd, Kowloon, Hong Kong; 116 Sec 1, Tachung-Kong Rd, Taichung, Taiwan. **L.P:** Exec. Dir: C. Bernardez. Dir's: S. Lader (Burma), Aswandi (Indonesia), Poopradandh (Thailand), T. W. Lung (Hong Kong), D. Chao (Taiwan). **D.Prgr's:** 11.00-12.00 in Thai, 12.00-12.45 in Burmese, 13.00-14.00 in Chinese. **V.** by QSL-card. Reports to be sent to C. Bernardez, P.O. Box 4148, Manila. Rec. acc. **Fi:** Operations are underwritten by Protestant Churches in Europe and America and by special gifts from the churches of the National Councils in the participating Asian Countries.

2) GSIS Bldg, Manila, D-406. **Te:** 32415. **Cable:** Philcast. **L.P:** Gen. Mgr: Simoun Almario. Asst. Gen. Mgr: J. Dy. Sr. Exec. Asst: P. Prado. Dir. Engineering: L. Quintos. **D.Prgr:** 21.00-15.00 in Philipino-English. Test tr's on 9580, 11950kHz (see above).

Relay Stn's: 1210kHz, Dagupan City; 1220kHz, Jolo, 1300kHz, Marawi City; 1350kHz, Davao City; 1410kHz, Cebu City; 1510kHz, Baguio City. **Ann:** "This is PBS, the Philippine Broadc. Sce". (followed by call letters and frequency in kilohertz). **V.** by letter. Rp. preferred.
3) Independence Grandstand, Luneta, Manila. **Ann:** "You are listening to st. DZCA owned and operated by the National Civil Defense Adm. of the Philippines".

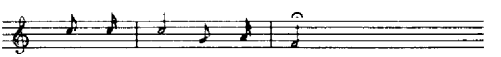
4) **FAR EAST BROADCASTING CO.**
Addr: Box 2041, Manila. **Te:** 233357. **Cable:** Febcom. **L.P:** Dir: N. Blake. Dir. Overseas Prgr's: R. H. Boettcher.

PHILIPPINE SERVICE:
On 680kHz: 24h (exc. Fri 14.30-20.30); On 3345kHz: 20.30-24.00, 09.00-14.30; On 6030kHz: 20.30-13.30.
20.30 Philippine dialects, 21.45 **English,** 22.30 Tagalog, 23.00 **English,** 01.15 Tagalog, 02.40 **English,** 04.30 Chinese, 06.00 **English,** 09.00 Tagalog and Philippine dialect, 11.00-20.30 English.
Manila's Fine Music Station:
20.55-16.00 on 1030kHz (all English).
Southern Philippine St's DXKI/DXAS
(Marbel, Cotabato/Jolo, Sulu): 21.00-14.00.
21.00-23.30 Philippine languages, 23.30-24.00 **English,** 00.00-09.00 **English,** 09.00-11.30 Philippine languages, 11.30-14.00 English.

OVERSEAS SERVICE:
G.C: of the sw-tr's: Valenzuela:120.58E/14.42N; Bocaue 120.55E/14.48N. Abbreviations: I=China Mainland; II=Malaysia/Indonesia/Singapore; III=Australia/New Zealand/New Guinea; IV=Japan; V=Thailand/Cambodia/Vietnam; VI=India/Pakistan/Ceylon; VII=USSR; a=English; b=Arabic; c=Indonesian; d=Thai. Lao; e=Sinhalese; f=Tamil, Telegu, Malayalem, Marathi, Kannada; g=Guherati, Bengali, Malayalem, Hindi, Tibetan, Nepali; h=Standard Chinese (Mandarin); i=Lao; j=Chinese dialects (Amoy, Cantonese, Hakka, Swatow); k=Malay; m=French, Cambodian; o=Japenese; p=Thai; q=Burmese; r=Russian; s=Vietnamese; t=Tribal; u=Cambodian.

Times	Areas	kHz/Beam	Language
21.45-22.00	II	11920(30/210°)	**English**
21.45-23.45	III	17810(150°)	**English**
21.45-22.45	I	6120/7225/9715(330°)	h
22.45-23.25	I	11855(330/150°), 9715(330°)	j
22.45-23.15	I	7225(330°)	j
22.00-23.30	II	11920(30/210°)	c+k+b
22.30-23.45	V	9505(280°)	i+s+u
23.25-24.30	V	11855(280°)	**English**
23.25-24.00	II	15440(240°)	**English**
00.30-01.00	V	15385(280°)	d+q
23.55-02.00	II	17810(30/210°)	h+c
00.00-01.00	II	15440(240°)	h
00.30-01.00	VI	11855(280°)	e
01.00-02.00	II	15300(240°)	**English**
01.00-02.00	V,VI	15440(280°)	**English**
01.00-02.45	V,VI	15390(280°)	f+g
01.00-05.30	III	21515(150°)	**English**
05.30-06.45*	III	21515(150°)	**English**
02.00-03.00	VII	15300(330/150°)	r
02.00-05.30	V,VI	17810(280°), 15440(280°)	**English**
05.30-06.00	V,VI	17810(280°)	**English**
05.30-06.45*	V,VI	15440(280°)	**English**
06.45-08.30*	V,VI	15300(280°)	**English**
08.30-09.00	V,VI	15300(280°)	**English**
06.45-08.30*	III	17810(150°)	**English**
08.30-09.30	III	17810(150°)	**English**
08.30-09.00	II	7230(210°)	**English**
08.30-09.30	II,IV	15385(30/210°)	**English**
08.30-09.00*	III	11890(150/330°)	**English**
09.00-10.00	III	11890(150/330°)	**English**
09.00-09.45	V	15300(280°)	j
09.00-09.45	II	7230(210°)	j
09.45-10.30	II	15300(240°), 7230(210°)	h
10.00-11.45	IV	11920(30/210°)	o
10.00-11.00	VII	9715(30/210°)	r
10.00-10.30	III	11890(150/330°)	r
10.30-11.15	I	11855(330/150°)	j
11.00-11.30	V	9505(280°)	j
11.15-12.45	V	11855(280°)	p+i
10.30-11.30	II	15300(240°), 7230(210°)	j
11.45-12.30	II	15300(240°), 7230(210°)	**English**
11.30-12.00	V	9505(280°)	t
11.45-14.00	II,V	11920(30/210°)	**English**
12.00-13.30	V	9505(280°)	s+m
12.30-12.45	II	7230(210°), 15300(240°)	k
12.45-14.00	V,VI	15440(280°)	**English**
12.45-13.45	II	15300(240°), 7230(210°)	c
13.30-14.00	V	9505(280°)	q
13.45-15.15	I	7225(330°)	h
13.45-15.15	II	15300(240°)	h
14.00-15.15	II,IV	11920(210/30°)	h
14.00-15.15	IV	9715(30/210°)	o
14.00-15.30	V,VI	15440(280°)	f+g
15.15-16.15	I	7225(330°), 9715(330°), 11920(330/150°)	j
	II	15300(240°)	j
15.30-16.30	V,VI	15440(280°)	**English**
16.15-17.30	VII	7225(330°) 11855(330°), 9715(330°)	r

*) Sundays only.
During **March/April 1970** the schedule will be as above with the following exceptions:
21.45-22.45 6120kHz to be replaced by 11855kHz;
23.25-00.30 11855kHz to be replaced by 15385kHz;
23.55-02.00 on 17810kHz will be retimed to: 01.00-02.00 on 15300kHz; 14.00-15.15 11920kHz to be replaced by 9715kHz. 14.00-15.15 9715kHz to be replaced by 11920kHz.
Beaming Code: 30°/210°=North/South; 150°=South East; 210°=South Beam; 240°=South West; 280°=West; 330°=North West.
NEWS: English: 23.30, 01.30, 02.55 (Sun), 04.00, 06.00 (Sun), 09.00, 11.55, 12.50 (W), 15.30, 16.00 (Sun).
Short Wave Mailbag: Mon 09.15 (to II+III), Tues 04.15 (to V+VI), 12.00 (II/IV), Wed 13.30 (to V/VI).
Listeners' Corner: Mon-Fri 23.45-24.00 (to II/V/VI).
ANN: "This is the English Sce. of the FEBC transmitting from the Philippines (quarterly). This is the English Sce. of the FEBC operating in the (metre bands)" (half-hourly). This is Manila calling. The English Sce. of the FEBC operating at (give freq's). The time is . . ." (hourly). **Int-Sig:** Part of hymn "Jesus Saves" played on vibraharp (bells).



V. by QSL-card and letter, Rp. preferred (3 IRC's for Air-mail). **Pub:** Prgr. schedule free on request. "Signal" (every two months) — **Fi:** FEBC is a non profit, non-comm, missionary organization being sustained by free-will gifts and offerings from interested friends.
5) Cotabato City, Cotabato.
6) National Teachers' College, P.O. Box 3032, Manila. **Ann:** E: "This is the Voice of Education". **V.** by letter.
7) **Manila Broadcasting Company — Addr:** Radio Center, 964 Taft Avenue, Manila. **Te:** 36451. **Cable:** "Manbroadco". **L.P:** Gen. Mgr: Ira Davis (DZRS/DZMB/DZPI=Manila; DZJC: Laoag City; DZAD=Dagupan City; DZAA=Legaspi City; DYRC/DYBU/DYMB=Cebu City; DYVL/DYMS=Tacloban City). **V:** all st's verify by QSL-card, Rp.
8) Dept. of Speech and Drama, Univ. of the Philippines, Diliman, Quezon City. **Ann:** "You are listening to DZUP, the R. st. of the State Univ. broadc. from Diliman, Quezon City, 1410kHz on your radio dial, 7.16MHz in the sw-band". **Int-Sig:** Electric chimes E-C(mido). **V.** by QSL-card or letter.
10) 3rd Floor, DBP Bldg. C. M. Recto St, Davao City. **Te:** 252. **L.P:** Dir. Gen: G. E. Torres. **Int-Sig:** DXMC: A gong (musical instrument used by Moros, natives of Mindanao). **V.** by letter.
11) Philippine R. Educational & Information Center, P.O. Box 132, Manila. **Te:** 41867. **L.P:** Pres: H. B. Reves. Gen. Mgr: Rev. R. J. Guillermo. Dir. Prgr: C. N. Gosioco, S. J. Dir. Tec: P. S. Comba. **D.Prgr:** 21.00-04.00, 09.00-15.00. **N:** 10.15, 12.00.
Test tr's: On 11830kHz: 10.30-10.58 to Indonesia, 11.00-11.30 to Indonesia/Malaysia, 11.30-11.58 to China, 12.00-12.30 Japan, 12.30-13.00 to Australia; On 15170kHz: 10.00-10.28 to Korea, 10.30-11.00 to Vietnam (South), 11.00-11.30 to Vietnam (North), 11.30-12.00 to Laos/Cambodia, 12.00-12.30 to Burma 12.30-14.00 to Vietnam (South).
Ann: "DZRV Calling: This is R. Veritas broadc. from Manila on 850kHz". **V.** by QSL-card and letter. Recordings accepted. **Pub:** "Truth in Asia" (quarterly).

12) **Mabuhay Broadc. System, C.M. Recto Ave, Manila.**
(530 Malabon (Rizal), Luzon, 820 Baguio, Luzon, 980/1360 Manila, 1290 Batangas, Luzon, 1350 Santiago, Isabela, Luzon, 1350 San Fernando, Luzon and 1400kHz Angeles, Pampanga, Luzon).
12a) Mt. Province Broadc. St, Mt. Province.
(540kHz Beckel-Trinidad, Mt. Province).

13) **Nation Broadc. Corpo, Quezon.**
(540 Olongapo, Luzon, 560 Cabanatuan, Luzon, 670 Davao, Mindanao, 720 Ilagan, Isabela, 750 Cebu, Cebu, 760 Iligan, Mindanao, 780 Baguio, Luzon, 780 Tuguegarao, Luzon, 810 San Pablo, Luzon. 830 Butuan, Mindanao, 880 Tarlac, Luzon, 940 Cotabato, Mindanao, 980 Zamboanga, Mindanao, 1010 Dagupan, Luzon, 1320 Santiago, Isabela, Luzon and 1490kHz Angeles, Pampanga, Luzon).

14) **Mareco Inc,** Quezon.
(540 Cebu, Cebu, 1430kHz Quezon, Luzon).
15) **Catholic Welfare Organization.**
(550 Ozamiz, Mindanao, 560 Basilan, Basilan, 560 Tagum, Mindanao, 640 Legaspi, Luzon, 890 Bangued, Luzon, 990 Vigan, Luzon, 1230 Bacolod, Negros, 1440 Tarlac, Luzon).
16) **Pacific Broadc. System,** Legaspi.
(560 Legaspi, Luzon, 790 Vigan, Luzon, 900kHz Dagupan, Luzon).
17) **T. Romasanta Broadc,** Bacoon, Caute.
(560 Bacoon, Caute, 1530kHz San Carlos).
18) **Bolinao Electronics,** CBN Bldg, Aduana St, Manila.
(570 Pardo, Cebu, 640 Davao, Mindanao, 660 Cotabato, Mindanao, 690 Legaspi, Luzon, 750 Baras, Canaman, Luzon, 870 Bacolod, Negros, 960/1000/1160 Meycauayan, Bulacon, Luzon, 1020 Lucena, Luzon, 1040kHz Dagupan, Luzon).
19) **R. Philippines Netw,** Manila.
(570 Agoo, La Union, 600 Bulacan, Luzon, 630 Laoag, Luzon, 690 Cotabato, Mindanao, 690 Tuguegarao, Luzon, 990 Baguio, Luzon, 1280 Valenzuela, Bulacan, Luzon, 1370kHz DZBS Baguio, Luzon).
20) **Republic Broadc. Syst,** Quezon.
(580/890/1310 Malabon (Rizal), Luzon, 1020/1520 Cebu, Cebu, 1440 Iloilo, Panay, 1570kHz Iligan, Mindanao).

21) **R. Mindanao Netw,** Philippine Herald Bldg, Manila.
(590 DXBC Davao, Mindanao, 590 DZHB Baguio, Luzon, 630 Butuan, Mindanao, 720 Iligan, Mindanao, 720 (DYBH) Bacolod, Negros, 780/870/1000 Cagayan de Oro, Mindanao, 900 Cebu, Cebu, 1130kHz Caloocan, Luzon).
22) **Jorge O. Broadc,** Iriga, Luzon.
23) **Cebu Broadc. Co,** Cebu (600kHz).

24) **Northern Broadc. Netw,** 105 N. Domingo St, San Juan, Rizal (600 Vigan, Luzon, 700 San Fernando, Luzon, 710 Davao, Mindanao, 800 Iloilo, Panay, 840 Cauayan (Isabela), 930 Tacloban, Leyte, 1020 Baguio, Luzon, 1040 Naga, Luzon, 1060 Laoag, Luzon, 1090 Masbate, Masbate, 1170 Dagupan, Luzon, 1220 Tuguegarao, Cagayan de Oro, Luzon, 1250 Meycauayan (Manila), Luzon, 1270 Daet, Luzon, Camarines Sur, Luzon, 1450 Cebu, Cebu, 1500kHz Bacolod, Negros).

25) **Visayan Broadc. Syst,** 9 Manikling St, Quezon.
(610 Malaybalay, Mindanao, 630/1050 Zamboanga, Mindanao, 660 Cebu, Cebu, 860 Calbayog, Samar, 910 Binalbagan, Negros, 1070/1360/1390 Bacolod, Negros, 1070 Tagum, Mindanao, 1130 Ormoc, Leyte, 1170 Tacloban, Leyte, 1230 DZAL Legaspi, Luzon, 1230 DXCB Butuan, Mindanao, 1280 Iloilo, Panay, 1290 Cagayan de Oro, Luzon, 1310 Tagbilaran, Bohol, 1320 Roxas, Panay, 1330 Iriga, Luzon, 1340 San José, Antigua, 1480 DYKR Kalibo, Panay, 1480 DZGK, Quezon, Luzon).

26) **Liberty Broadc. Netw,** Manila.
(630 Cadiz, Negros, 980 Davao, Mindanao, 1080 Butuan, Mindanao, 1210 Nalinae, Luzon, 1270 Baguio, Luzon, 1470 Bacolod, Negros, 1540kHz Caloocan, Luzon).
28) **Pedro Roa Broadc,** Cagayan de Oro, Luzon.
29) **Monserrat Broadc. Syst,** CBN Bldg, Manila.
(660 Laoag, Luzon, 830 Meycauayan (Manila), Luzon).
30) **Chronicle Broadc. Netw,** CBN Bldg, Manila.
(620/1340 Meycauyan (Manila), Luzon, 670 Iloilo, Panay, 700 Cagayan de Oro, Luzon, 870 Bacolod, Negros, 910 Iligan, Mindanao, 1010 Zamboanga, Mindanao).
31) **Metropolitan Broadc. Co,** Cebu.
(690 Bacolod, Negros, 970 Cebu, Cebu, 1110 Cagayan de Oro, Luzon, 1300kHz Davao, Mindanao).
32) **Legaspi Broadc. Syst,** Legaspi.
(720/980 Legaspi, Luzon, 1220 Daet, Luzon, 1250 Sorsogon, Luzon, 1400kHz Naga, Luzon).
33) **East Visayan Broadc. Netw,** Tacloban, Leyte.
34) **ABS-CBN Broadc. Corpo,** Baguio, Luzon.

35) **Freedom Broadc. Netw,** Makati, Rizal.
(730/1300 Lipa, Luzon, 780 DXDO Mati, Mindanao, 780 DZZR Legaspi, Luzon, 1060 Masbate, Masbate, 1120 Tabaco, Albay, 1170 Lucena, Luzon, 1210 Alabang (Muntinlupa), Luzon, 1420 Olongapo, Luzon, 1580kHz Gubat, Luzon).
36) **Franciscan Broadc. Corpo,** Malusay, Negros Oriental.

37) **Filipinas Broadc. Netw,** Makati, Rizal.
(740 Tuguegarao, Luzon, 750 General Santos (Rajah Buayan City), Mindanao, 850/1200 Baras, Canaman, Luzon, 890 Legaspi, Luzon, 1120 Tarlac, Luzon, 1490 kHz Ozamiz, Mindanao).
38) **R. Henry Canoy,** Manila.
(750 Bauang, Leyte, 770 Ormoc, Leyte, 770 Quezon, Luzon, 1010 San José, Nueva Ecija, 1200kHz Surigao, Mindanao).
39) **L.N. Augustin Farms,** Bacolod, Negros.
40) **Cosmopolitan Broadc. Co,** Laoag, Luzon.
41) **Allied Broadc. Center,** Puerto Princesa.
(770 Puerto Princesa, Palawan, 990/1160 Iloilo, Panay, 1010 Roxas, Palawan, 1030/1200 Bacolod, Negros, 1120 Dumaguete, Negros, 1420kHz San Carlos, Negros).
42) **Rajah Broadc. Netw,** Novaliches, Luzon.
43) **Delta Broadc. Syst,** Manila.
(790 Angeles, Pampanga, Luzon, 1230/1480 Novaliches, Luzon).
44) **Far East Business Enterprises,** Isabela, Basilan.
45) **Philippines Broadc. Corpo,** Cebu.
(800 Navotas (Manila), Luzon, 820kHz Cebu, Cebu).
46) **Manila Times Publishing Co,** Manila.
(810 Laoag, Luzon, 940 Dagupan, Luzon, 1070/1100kHz Bulacan (Manila), Luzon).
47) **Pan Oriental Broadcasters,** Bulan.
(940 Bulan, Luzon, 1480kHz Sorsogon, Luzon).
48) **R. St. DXWB,** Gingoog, Mindanao.
49) **Bayanihan Broadc. Center,** Sorsogon.
(1010 Sorsogon, Luzon, 1190 Zamboanga, Mindanao, 1270 Tagum, Mindanao, 1310 Jolo, Jolo, 1440 Calapan, Mindoro, 1530 Salay, Mindanao, 1570kHz Urdaneta).

50) **Eagle Broadc. Corpo,** Rizal.
(1020 Davao, Mindanao, 1050 Rizal (Manila), Luzon, 1080 Naga, Luzon, Tuguegarao, 1080 Luzon, Dagupan, Luzon, 1100 Zamboanga, Mindanao, 1150 Lucena, Luzon, 1350kHz Cebu, Cebu).
51) **Juanito Viado Broadc,** Tagbilaran, Bohol.
52) **Rural Electric Corpo,** Digos, Mindanao.
53) **University of San Augustin,** Iloilo, Panay.
54) **R. St. DYMX.** Cebu, Cebu.
55) **R. St. DYRF,** Mambling, Cebu.
56) **Audrenax Inc,** Davao.
(1100 Davao, Mindanao, 1240kHz Alumnera, Cebu).
57) **Vanguard R. Netw,** Calbayog.
(1110 Calbayog, Samar, 1240/1330 Cabanatuan, Luzon, 1320 Olongapo, Luzon, 1390kHz Solano, Luzon).
58) **Philippine Wireless,** Batac, Luzon.
59) **R. St. DYRD,** Tagbilaran, Bohol.
60) **R. St. DXSY,** Ozamiz, Mindanao.
61) **R. Communications of the Philippines,** Catbalogan.
62) **Luzonian College,** Lucena. Luzon.
63) **Central Philippines Broadc. Co,** Cebu.
64) **Far East Broadc. Enterprises,** Orumarez.
65) **R. St. DZYV,** Gumaca, Quezon Prov, Luzon.
66) **R. St. DYVN,** Baybay, Leyte.
67) **Aquino Enterprises,** Virac, Catanduanes.
68) **Panay Broadc. Corpo,** Roxas, Panay.
69) **Mindanao Broadc. Co,** Marawi, Mindanao.
70) **Ramon Encarnacion Broadcasting,** Dagupan.
71) **Marulo Villalba Broadcasting,** Dipolog, Mindanao.
72) **Bulletin R. Netw,** Bulacan, Luzon.
73) **Abellana National School,** Cebu.
74) **Iglesia Ni Kristo, R. St. DZEM,** Rizal, Luzon.
75) **Visayan-Mindanao Confederation of Trade Union,** Voice of Labor, Liloan, Cebu.
76) **Philippines College of Arts and Trade,** Manila, Luzon.
77) **Feati University,** Manila, Luzon.
78) **Central Broadc. Inc,** Cebu.

VOICE OF AMERICA RADIO STATION PHILIPPINES

ADDR: Voice of America, Washington D.C. 20547, USA.
STATIONS: Medium Wave: Poro A: 1140kHz 263m 1000kW: 11.00-24.00.
Short Waves: Poro: 35/50/100kW: 00.00-24.00.

kHz	m	kHz	m	kHz	m	kHz	m
6185	48.50	11775	25.48	15185	19.76	17735	16.92
7275	41.24	11785	25.46	15210	19.72	17830	16.83
9555	31.40	11790	25.45	15250	19.67	21570	13.91
9760	30.74	15155	19.80	15365	19.52	21630	13.87

Tinang: 50/250kW: 00.00-24.00.

kHz	m	kHz	m	kHz	m	kHz	m
7135	42.05	11715	25.61	11965	25.07	15365	19.52
7145	41.99	11730	25.58	15110	19.85	15395	19.49
9530	31.48	11790	25.45	15165	19.78	15410	19.47
9580	31.32	11805	25.41	15175	19.77	17740	16.91
9615	31.20	11830	25.36	15210	19.72	17750	16.90
9630	31.15	11875	25.26	15225	19.71	17765	16.89
9650	31.09	11895	25.22	15290	19.62	17825	16.83
9665	31.04	11920	25.17	15345	19.55	17830	16.83
9770	30.71	11930	25.15				

G.C: Poro 120.17E/16.37N — Tinang: 20.37E/15.21N.
D.PRGR: Medium Wave: 1140kHz: 11.00-16.30 Vietnamese; **Short Wave:** See USA.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America from the Philippines".
INT-SIG: Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs — **V.** by QSL-card. Reports required. No Rp.

QATAR (British)

L.T: GMT+4h — **Pr.L:** Arabic.

QATAR BROADCASTING SERVICE

ADDR: Govt. of Qatar, Dept. of Information, P.O. Box 1414, Doha — **L.P:** Dir. Gen: T. Shihabi. Dir. Tec: A. T. Dunk. Contr. of Prgrs: M. Al-Shahed. Contr. of N: I. Abu. Nab. Adm. Officer: N. I. Barghout.
STATIONS (G.C: 51.30E/25.12N):
674kHz 445.0m 10/50kW — 9570kHz 31.35m 100kW.
HOME SCE. in Arabic: 02.30-06.00 (Fri 07.30), 13.00-19.15.
ANN: "Itha'at Qatar Min Ad Doha" — **V.** by letter.

RYUKYU ISLANDS

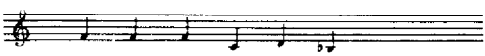
L.T: GMT+9h — **Pr.L:** Japanese, Okinawan, English.

RYUKYU BROADCASTING CORPORATION (Comm.)

ADDR: CPO Box 4, Naha, Okinawa. **Te:** 8-4161.
L.P: Exc. Mgr: T. Sakai.
HOME SCE: KSAR 740kHz 405.4m 5kW: 20.00-16.00 Japanese — KSBK 890kHz 340.9m 3kW: 20.00-16.00 English — **N:** Every h on the h — **ANN:** KSAR: "RBC" or "Ryukyu hoso desu" every 15 or 30 min's. KSBK: "Radio 890" — **V.** by QSL-card.

FAR EAST BROADCASTING CO. (Non-Comm, Missionary)

ADDR: CPO Box 55, Naha. **Cable:** Febcom. **Te:** 78208.
L.P: Dir: H. Browne. Dir. Tec: W. Beals. Dir. Prgr's: J. Dresbach (KSAB), H. Matsukawa (KSDX), G. Beli (KSBU).
STATIONS: KSAB 1020kHz 1kW — KSDX 1250kHz 5kW — KSBU 1360kHz 100kW — **HOME SCE:** KSAB (English): 20.00-14.15. **N,Wrp:** Every h on the h — KSDX (Japanese): 21.00-14.00. **N:** 23.55, 01.00, 03.00, 07.00, 08.00, 09.00, 12.00 — KSBU (Chinese): 10.30-15.30 (beamed towards Shanghai) — **ANN:** Call letters every 15 or 30 min. — **V.** by QSL-card. Rp. preferred.
INT-SIG: Vibraphone.



PUB: Prgr. schedule free — **FI:** By freewill gifts.

RADIO OKINAWA CO. LTD. (Comm.)

ADDR: CPO 405, Naha, Okinawa. **Te:** 8-5128.
STATION: KSDT 780kHz 384.6m 5kW.
HOME SCE. in Japanese: 20.00-15.00.
ANN: "KSD ROK" or "R. Okinawa des" at 15 or 30 min. intervals — **INT-SIG:** Chimes or audio tones. **V.** by QSL-card.

VOICE OF AMERICA RADIO STATION IN OKINAWA

ADDR: Voice of America, Washington D.C. 20547, USA.
STATIONS: Medium Wave: Okinawa 1178kHz 1000kW: 11.00-17.00. **Short Wave:** Okinawa 35/100kW: 21.30-01.00, 08.00-17.00.

kHz	m	kHz	m	kHz	m	kHz	m
3935	76.24	6075	49.38	7165	41.87	9560	31.38
6010	49.92	7160	41.90	7255	41.35	11830	25.36

G.C: 128.09E/26.44N.
D.PRGR: Medium Wave: 11.00-13.30 Chinese, 13.30-14.30 Korean, 14.30-16.00 Chinese — **Short Wave:** See USA.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English. Station identification is in English: "You are listening to the Voice of America in Okinawa".
INT-SIG: Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs — **V.** by QSL-card. Reports required. No Rp.

VOICE OF THE UNITED NATIONS COMMAND (VUNC)

ADDR: Headquarters: 7th Psyop Gp, APO 96248. Studios: Machinato, Okinawa.
STATIONS: Deragawa (Okinawa) 9915kHz 30.26m 20kW, 14460kHz 20.75m 20kW — **D.Prgr's in Korean** (Point-to-Point relay): 06.00-21.00 — **V.** by QSL-card — **PUB:** Prgr. schedule yearly.

SABAH (Fed. of Malaysia)

L.T: GMT+8h — **Pr.L:** English, Bahasa Malaysia, Chinese, Kadazan, Murut, Bajau, Indonesian — **EC:** a/c 50 (yes).

RADIO MALAYSIA SABAH (Gov.)

ADDR: Dept. of Radio, Kota Kinabalu. **Te:** 2711. **Cable:** Broadcasts — **L.P:** Pengawal Radio: S. H. Amin. Chief Eng: K. O. Chen.
STATIONS (G.C: 116.03E/05.56N):

kHz	m	kW	kHz	m	kW
565	531.0	10	930	322.6	5
750	400.0	5	4970	60.36	5

FM: 97.5MHz 100kW (ERP).
HOME SCE: On 930/4970kHz+FM: W 22.30-00.30, 04.00-06.15, 07.45-16.00 (Sat 03.00-16.00); Sun 22.30-07-15, 07.30-16.00.
English: 23.30-24.00 (W), 01.30-04.00 (Sat), 05.00-05.30 (Sat 06.30), 11.00-11.45, 13.30-15.00. **Bahasa Malaysia:** 00.00-01.30 (W), 00.30-01.30 (Sun), 05.30-06.15 (Mon-Fri), 05.30-07.15 (Sun), 06.30-07.45 (Sat), 12.00-13.30, 15.00-16.00. **Chinese:** 23.00-23.30 (Sun 23.30-00.30), 04.30-05.00, 08.00-09.30. **Kadazan:** 22.30-23.00 (Sun 23.30), 04.00-04.30, 09.30-09.45, 10.00-11.00. **Indonesian:** 07.45 (Sun 07.30)-08.00. **Murut:** 09.45-10.00. **Bajau:** 11.45-12.00.
Reg. Sts: Tawau 750kHz: 04.00-06.15 (Sun 07.15, Sat 07.45), 07.45-08.00 rel. Kota Kinabalu; 08.00-09.00 (tape from Kuala Lumpur), 09.00-11.00 rel. Kuala Lumpur; 11.00-16.00 rel. Kota Kinabalu. Tenom 565kHz: 08.00-09.00 (tape from Kota Kinabalu), 09.00-13.00 rel. Kota Kinabalu-FM.

ANN: "Ini-Lah Malaysia, Sabah" — **INT-SIG:** Open with State Anthem and closes with National Anthem. **V.** by letter. Re. to Penolong Pengawal Ranchangan.

SARAWAK (Fed. of Malaysia)

L.T: GMT+8h — **Pr.L:** English, Malay, Chinese, Iban, Melanau, Bidayuh, Kayan/Kenyah — **EC:** a/c 50 (yes).

R. MALAYSIA SARAWAK (Gov.)

ADDR: Broadc. House, Kuching. **Te:** 22345. **Cable:** Broadcasts — **L.P:** Contr. of Radio: M. Salleh Askor. Chief Eng: Sun Tai Lum.
STATIONS (G.C: 110.20E/01.33N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
650	461.5	20	4835	62.05	20/10	7270	41.27	20/10
730	411.0	10	4950	60.60	20/10	9535	31.46	20/10
850	352.9	20	5030	59.62	20/10	9565	31.37	20/10
870	344.8	20/10	7145	41.99	20/10	9605	31.23	20/10
950	315.8	20	7160	41.90	20/10			

HOME SCE: Morning Sce: On 730/4950/7160kHz: 23.00-01.00 (English 23.00, Chinese 00.00) — On 850/4835/7145/9335kHz: 23.00-04.00 (Iban 23.00, Bidayuh 23.30, Malay 00.00).
Midday Sce: On 730/7160kHz: Chinese 04.00-05.00 (W). **English:** 05.00-05.30 (Sat 06.30, Sun 07.30). 03.00-04.00 (Sun). On 850/7145kHz: Melanau 04.00-05.00 (Tues) — Malay 04.00-05.00 (Wed), (Fri 05.30, Sun 06.00) — Iban 03.00-04.00 (Sun), 04.00-05.00 (Mon, Thurs, Sat). On 950/7270kHz: Bidayuh 04.00-05.00 (Sun).
Evening Sce: On 730/4950/7160kHz: Chinese 09.00 (Sun 08.00)-11.00, 12.30-14.00. **English:** 11.00-12.30, 14.00-16.00 — On 850/4835/7145kHz: Malay 08.30-10.30, 12.30-14.00, 15.00-16.00. Iban 10.30-12.30, 14.00-15.00 — On 950/5030kHz: Bidayuh: 10.30-12.30, 13.00-14.00. Kayan/Kenyah: 12.30-13.00.

ANN: E: "This is R. Malaysia Sarawak". Malay: "Inilah R. Malaysia Sarawak". Iban: "Tu R. Malaysia Sarawak". Chinese: "Cher Sher Sarawak Malaysia Kwang Po Tien Thai". Bidayuh: "Ati Inuh R. Malaysia Sarawak". Kayan: "Anih nah R. Malaysia Sarawak". **INT-SIG:** A musical phrase played on a native instrument, the Sape, a musical phrase alternating between A and F — **V.** by QSL-card — **ALF:** $10.00 (for main sets), $3.00 (for battery sets).

SAUDI ARABIA

L.T: GMT+3h — **Pr.L:** Arabic — **EC:** a/c 50 or 60 (no).

BROADCASTING SERVICE OF THE KINGDOM OF SAUDI ARABIA (Gov.)
ADDR: Ministry of Information, Riyadh. **Cable:** Information Ministry. **Te:** 4171 — **L.P:** Minister of Inf: H. E. Sheikh Hijailan. Dir. Gen. of Eng. (Radio and TV): A. Sabri (Eng. Dept. Riyadh).
STATIONS (G.C: Jeddah 39.12E/21.88N; Riyadh 46.23E/24.30N): *=Jeddah; †=Riyadh; ‡=Damman; E=English; A=Arabic.

kHz	m	kW	Sce.	kHz	m	kW	Sce.
†548	547.4	50	A	*705	425.7	50	E
†575	521.7	1	E	‡890	337.1	100	A
†587	511.1	1200	A	*1594	188.0	?	E
*647	463.7	50	A				

Short Waves:

kHz	m	kW	kHz	m	kW	kHz	m	kW
†6000	50.00	50	†9720	30.86	50	*15115	19.85	50
*7220	41.55	50	*11855	25.31	50	†15150	19.80	50
*9670	31.02	50	†11950	25.10	50	†15280	19.63	50

HOME SCE: General Arabic Prgr: Riyadh+Damman: 03.30-22.40 (approx.) on 587/890/6000/9720/11950kHz; Jeddah: 03.30-22.40 (approx) on 647/7220/9670/15150kHz. **English Prgr** (Jeddah) on 705/1594/11855kHz: 04.30-05.30 (or 06.00), 11.00-12.00 (Fri and holidays 10.00-13.00), 17.00-20.00. **N:** 04.45, 11.30, 17.00, 19.45. **English** (Riyadh) on 575kHz+98MHz: 05.30-07.30, 09.00-11.00, 17.00-19.00. **French** (Jeddah) on 703/1594/11855 kHz: 06.00-08.00, 20.00-22.00.
FOREIGN SCE: On 15115kHz: Indonesian 13.00-13.35 (N: 13.45), Urdu 14.00-14.55 (N: 14.45), Persian 15.00-15.55 (N: 15.45). **On 11855kHz:** Swahili 16.00-16.55 (N: 16.45).
ANN: Arabic: Riyadh: "Al-ithaa' t'il Mamlakah t'il Arabiyah al Saudiyah min ar Riyadh wa Damman". Jeddah: "Al-ithaa' t'il Mamlakah t'il Arabiyah al Saudiyah min Jeddah". E: "This is the Broadc. Sce. of the Kingdom of Saudi Arabia" — **INT-SIG:** Call to prayer (Az'an') played on flute — **V.** by letter and postcards. Rec. acc — **F.PL:** Four 250kW mw-tr's at Riyadh; 1kW mw-tr's at Medina, Abha, Jizan, Tabuk, Hail and Buraidah.

SINGAPORE

L.T: GMT+7½h — **Pr.L:** Malay, Chinese, Tamil, English. **E.C:** a/c 50 (yes).

RADIO SINGAPORE (Gov.)
ADDR: Dept. of Broadc, Ministry of Culture, P.O. Box 1902, Singapore. **Te:** 50401. **Cable:** Broadcasts. **L.P:** Dir. of Broadc: Hsu Tze Kwang. Dep. Dir: Mrs. Wong Lee S. Tin. Eng: G. Ang. Asst. Dir. (Prgr): C. V. Doral. Contr. (News): S. C. Lim. Comm. Mgr: H. F. Lee.
STATIONS (G.C: 103.42E/01.20N): *=Multilingual; E=English; C=Chinese; M=Malay; T=Tamil.

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
630	476.2	10	E	6000	50.00	7.5	C
680	441.2	10	C	6155	48.74	50	M
790	379.7	100	*	7170	41.84	10	C/T
990	303.1	20	M	7250	41.38	10	M
1370	219.0	20	C/T	9635	31.14	50	C
5052	59.38	10	E	11940	23.12	50	E

FM: (all 12kW ERP): 92.4MHz(E), 94.2MHz(M), 95.8 MHz(C), 96.8MHz(T); Stereo 92.4MHz (E+C).
HOME SCE: English on 630/5052/11940kHz+FM: D 22.30-16.30. **N:** 23.00, 23.30, 00.30. 06.00, 09.30, 10.30, 11.00, 11.30, 14.00, 15.30.
Malay on 990/6155/7250kHz+FM: D 21.30-16.30. **N:** 23.45, 00.45, 05.30, 09.30, 10.30, 11.45, 13.45, 15.15.
Chinese: On 680/6000/9635kHz+FM: D 21.30-16.30. **N:** 23.45, 00.30, 00.45, 05.00, 05.45, 09.30, 10.30, 11.45, 12.10, 12.30, 12.45, 13.45, 14.00, 14.45, 15.00.
Tamil on 1370/7170kHz+FM: D 21.30-16.30. **N:** 23.45, 00.30, 06.00, 09.30, 11.00, 13.00.
FM Stereo (English+Chinese): 22.30-01.30, 10.30-15.30.
ANN: "This is R. Singapore", "Inilah R. Singapura". **V.** by QSL-card. Rp. Rec. acc — **PUB:** "Fanfare" and "TV and Radio Magazine" — **FI:** By Gov, Licensed Radio sets 81.040 and license payments — **ALF:** $12.00. **EC:** a/c 50 (yes).

BRITISH FORCES BROADC. SCE. SINGAPORE
is operated by the Ministry of Defence to provide a service of inf. and entertainment as well as a link with home for H.M. Forces in the Far East. It is non-comm, does not accept adv.
ADDR: B.F.B.S. (F.E.), HQ FARELF, c/o GPO Singapore. **Te:** 64711 — **L.P:** St. Contr: P. Buckle, MBE. Sen. Eng: W. C. Robertson. Prgr. Organiser (English) D. J. H. Davis. Prgr. Organizer (Gurkha): Mrs. L. Devaraj.
STATIONS: *) for Singapore — †) for We. Malaysia. *88.9MHz 5kW (English) — †5010kHz 59.88m 10kW (English) — †6040kHz 49.67m 10kW (Gurkha).
D.PRGR: English: 22.30-00.30, 04.30-06.30, 09.00-15.30 (weekends and public holidays 22.30-15.30) — **Gurkha:** 11.30-14.30.
N. in English (BBC relay): 23.00, 00.00, 09.00, 11.00, 13.00 — **N. in Gurkha:** 12.30 — **V.** by QSL-card. Rp.

REDIFFUSION SINGAPORE (Comm.)
ADDR: P. O. Box 608, Singapore. **Te:** 25011. **Cable:** Rediffuse — **L.P:** Man. Dir. J. Snowden. Comm. Mgr: Mrs. J. Taylor — **D.PRGR'S:** 22.30-16.30: Two simultaneous prgr's (English and Chinese) via wired network. **ALF.** (Rediff. Rental): Singapore $5.00 (monthly).

SOUTHERN YEMEN (People's Republic of)

L.T: GMT+3h — **Pr.L:** Arabic — **EC:** a/c 50 (yes).

SOUTH YEMEN BROADCASTING SERVICE (Gov, Comm.)
ADDR: P.O. Box 1264, G.P.O, Aden. **Te:** 4875. **Cable:** Al Irshad — **L.P:** Dir. Gen: Alawi Sakkaf. Broadc. Eng: R. A. Kader. Contr. Prgr: R. A. H. Sallam.
STATIONS (G.C: 44.54E/12.45N): 755kHz 397.4m 50kW — 5060kHz 59.29m 7.5kW (1358kHz for TV Simulcast).
HOME SCE. in Arabic: D. exc. Fri. 03.30-06.00, 12.00-19.30; Fri 03.30-19.30 — **ANN:** "Idha-at Gamhuriat-Al-Yemen Al-Gunubeya Ash-Shabeya Min Adan" — **V.** by QSL-card. Rp. preferred. Re. preferably from Arabic speaking countries.

SYRIAN ARAB REP.

L.T: GMT+2h (Su: GMT+3h) — **Pr.L:** French, Arabic.

SYRIAN BROADCASTING AND TELEVISION (Gov.)
ADDR: Ommayad Square, Damascus — **L.P:** Dir. Gen: A. Joudeh. Dir. Tec: N. Kassrawi.
STATIONS:

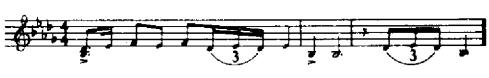
kHz	m	kW	kHz	m	kW	kHz	m	kW
566	530	100	746	402	100	944	318	10
602	498	2	782	380	60	957	314	60
665	451	100	863	348	10	1313	228.5	10
719	417	2						

Short Waves:

kHz	m	kW	Times
5960	50.34	10	04.30-09.30, 15.00-23.00
7105	42.22	50	04.00-08.00, 15.30-19.00
9585	31.30	30	04.00-23.30
11915	25.18	20	17.30-18.00
15165	19.78	50	19.00-22.00, 22.30-01.00
15290	19.62	20	04.00-08.00, 13.00-17.30, 18.00-23.00, 23.30-01.00
17865	16.80	50	10.00-13.00, 23.30-01.00

HOME SCE: Arabic: 04.00-23.30 on 566/665/746/782/957kHz; On 1313kHz: 09.30-11.00, 13.00-15.00. **On 7105kHz:** 04.00-08.00, 15.30-19.00; **On 9585kHz:** 04.00-23.30; **On 15290kHz** (to No. Africa): 04.00-08.00, 13.00-17.30, 18.00-23.00; **On 11915kHz:** (to So. Arabia): 17.30-18.00; **On 17865** (to No. Africa): 10.00-13.00.
Local Prgr's in other languages:
Hebrew: 04.30-05.30, 16.00-18.00 on 944/5960kHz; **English:** 08.00-09.30, 20.30-22.00 on 863/944/1313/5960 kHz; **French:** 06.30-08.00, 19.00-20.30 on 863/944/1313/5960kHz; **Turkish:** 15.00-16.00 on 944/5960kHz; **German:** 18.30-19.00; **Russian:** 18.00-18.30 on 863/944/1313/5960 kHz; **Musical Prgr's:** 05.30-06.30, 22.00-23.00 on 863/944/1313/5960kHz.

OVERSEAS SERVICE:
To Western Europe: 18.00-21.00 on 15165kHz (French 18.00, English 19.30) — **To Latin America** (Arabic/Spanish): 22.30-01.00 on 15165kHz, from 23.30 also on 17865kHz — **To North America** (Arabic/English): 23.30-01.00 on 15290kHz.
ANN: Arabic: A) "Eza'at el Jumhuriya il Arabiya es-Souriya mi Dimashk" (The Syrian Arab Republic's Broadc. Sce. from Damascus); B) "Eza'at Ma' E-Sha'b mi Dimashk" (The People's Prgr. from Damascus); C) "Eza'at Falastin mi Dimashk" (Palestine Broadc. from Damascus). E: "This is Damascus calling". F: "Ici Damas". Hebrew: "Kol Damasseh" — **INT-SIG:** Guitar. **V.** by QSL-card and letter — **EC:** a/c 50 (no).



THAILAND

L.T: GMT+7h — **Pr.L:** Thai — **EC:** a/c 50 (yes).

THE THAI NATIONAL BROADCASTING STATION
ADDR: Public Rel. Dept, Bangkok. **Te:** 4881. **Cable:** Radio Thailand — **L.P:** Dep. Dir. Gen: Dr. W. Siwasariyanond. Head Foreign Div: Ch. Rangsikul.

Call	kHz	m	kW	Call	kHz	m	kW
HSK27	810	370.4	10	HSK28	856	350.5	10
HSK2	830	361.4	100	HSLK	923	323.6	10

Short Waves (G.C: 100.30E/13.47N):

Call	kHz	m	kW	Call	kHz	m	kW
HSKB	4830	62.10	5	—	7115	42.16	2.5
HSK5	6070	49.42	1	—	7305	41.07	2.5
HSK4	6160	48.70	1	HSK	11910	25.18	100

HOME SCE: Thai: 00.00-01.00, 12.00-14.45 on 830/4830/6070/6160/7305/11910kHz — **Other Languages:** French 05.30-06.00 on 1146/11910kHz. Laotian: 06.30-07.00 on 6070kHz (or 6160kHz).
OVERSEAS SCE: To No. America: 04.15-05.15 English on 910/7105/11910kHz. **To Korea** (in Thai): 09.30-09.45 on 810/7305/11910kHz. To Vietnam: 09.45-11.55 on 810/11910kHz (Vietnamese 09.45, Cambodian 10.00, English 10.25-11.30, Malay 11.30, Mandarin 11.45).
General Overseas Sce: 10.25-11.57 on 6160/11910kHz. **Rel. Home Sce:** 13.00-14.00 on 11910kHz. **N:** English 04.25, 10.30; Thai 09.32, 13.00; Vietnamese 09.45; Cambodian 10.00; Malay 11.30; Mandarin 11.45.
ANN: E: "This is the Overseas Broadc. St. of Thailand". F: "Ici R. Bangkok". Thai: "Thini Sattani Vitthayu Krachasiang hang Prathet Thai" — **V.** by letter. Rp. to Overseas Broadc. Div, Public Relations Dept, Bangkok.

Regional Stations (in Thai only):

Call	kHz	m	kW	Location
HSKK	660	454.6	55	Khon Kaen
HSWK	725	413.8	55	Nakhon Ratchasima
—	830	361.4	100	Salaya
—	843	355.9	50	Sakon Nakhon
—	880	340.9	10	Ban Tak
—	910	329.7	1	Bangkok
—	1130	265.5	10	Lampang
HSK24	1210	247.9	10	Surat Thani
HSKU	1345	223.0	10	Ubol

+10 st's of 1kW not mentioned.

MINISTRY OF EDUCATION (Gov.)
ADDR: Division of Educ. Inf, Ministry of Education, Bangkok. **Te:** 816066.
STATIONS (G.C: 100.30E/13.47N): mw 10kW, sw 2kW. 1180kHz 254.2m — 3202kHz 93.70m — 6060kHz 49.50m.
HOME SCE. in Thai, English: Mon-Fri 11.00-14.00, Sat/Sun 09.00-12.00 (in Thai and occ. English): Mon-Fri 01.30-07.00 School prgr's (in term time) — **N:** 11.35-13.00 — **ANN:** E: "This is the Educ. Broadc. St. of Thailand, broadc. on a frequency of . . ." — **V.** by letter — **PUB:** "Radio Times" in Thai.

THAI TELEVISION CO. LTD. (Comm.)
ADDR: Mansion B. Rajadamnern Ave, Bangkok. **Cable:** Thaitv. **Te:** 27952 — **L.P:** Man. Dir: W. Siwasariyanon.
STATIONS (G.C: 100.30E/13.45N):
1500kHz 200.0m 10kW Prgr. I — 6010kHz 49.92m 10kW Prgr. I — 1146kHz 261.8m 10kW Prgr. II — 7105kHz 42.22m 1kW Prgr. II.
FM: 100.5MHz (Prgr. I), 94.5MHz (Prgr. II, music), 96.5MHz (Prgr.III), 95.0MHz (Stereo-Multiplex, Prgr.IV).
HOME SCE. in Thai: Prgr. I: 23.00-16.00 on 1500/6010 kHz. **N. in Thai:** 00.00, 00.45, 01.00, 02.30, 03.35, 04.20, 07.45, 08.30, 09.30, 10.40, 11.30, 13.00, 13.40, 15.00.
Prgr. II (Music): On 1150/7105kHz — Reported with Prgr's in **English:** 23.00-02.00 (Sun 07.30) on 674/6090kHz +95.0MHz; 11.30-11.45 (N) and 14.10-17.00 on 95.0MHz.
ANN: "This is the regular Sce. of TTV Radio, broadc. every day on the freq's of 1500kHz, 6010kHz and 100.5MHz. Transmission comes to you every day, from six o'clock to eleven o'clock — **V.** by letter. Recordings accepted.

VOICE OF FREE ASIA
ADDR: USIS/T, APO San Francisco 96346, USA.
L.P: St. Mgr: Lawrence C. Mennitt.
STATION: Ban Pachi 1580kHz 189.9m 1000kW. This st. relays the VOA at 11.30-17.00 (see below) and broadc. own prgrs.
ANN: "This is the Voice of Free Asia" at s/on and s/off — **V.** by letter and QSL-card. Re. welcome.

VOICE OF AMERICA IN THAILAND
ADDR: Voice of America, Washington D.C. 20547, USA.
Medium Wave (Ban-Phachi): 1580kHz 1000kW: 11.30-17.00 — **D.PRGR:** 11.30-12.30 Burmese, 12.30-13.00 Laotian, 13.30-14.00 Cambodian, 14.00-14.30 **English,** 14.30-15.00 **English,** 15.00-16.00 Vietnamese, 16.00-17.00 Bengali.

OTHER STATIONS:

	kHz	m	kW		kHz	m	kW
1)	555	540.5	10	20)	1090	275.2	10
2)	590	508.5	10	21)	1100	272.7	10
3)	590	508.5	10	22)	1200	250.0	10
4)	600	500.0	10	23)	1230	243.9	10
5)	600	500.0	10	24)	1276	235.1	10
6)	650	461.5	10	25)	1290	232.6	10
7)	662	453.2	10	26)	1290	232.6	10
8)	705	425.5	20	1)	1300	230.8	1
9)	715	419.6	10	11)	1320	227.3	1
10)	720	416.7	10	27)	1320	227.3	10
1)	785	382.2	10	28)	1333	225.1	10
11)	800	375.0	2/1	29)	1350	222.2	1
1)	890	337.1	1	30)	1380	217.4	1
12)	931	322.2	1	31)	1410	212.8	20
13)	950	315.8	1	32)	1420	211.3	10
14)	975	307.7	10	33)	1460	205.5	10
15)	975	307.7	10	21)	1470	204.1	20
16)	985	304.6	10	34)	1520	197.4	20
17)	990	303.0	0.5	35)	1530	196.1	10
17)	1010	297.0	1	36)	1540	194.8	20
18)	1043	287.6	10/20	1)	1550	193.5	20
17)	1060	283.0	1	37)	1570	191.1	10
19)	1070	280.4	20				

Stations (Ann. consist of "Thini - - -" followed by given short name):
1) Armed Car School, Bangsue. (St's on 785/890kHz located at Bangkrabue). Short name: "Yan Kro".
2) Local Radio St, Chumphon. Short name: "Wor Por Thor 15".
3) Local Radio St, Khon Kaen. Short name: "Wor Por Thor 12".
4) AAA Division Radio Broadc. St, Bangkok. Short name: "Pol Por Thor Or".
5) Thai Army Anti Aircraft Artillery St, Bangsue. Short name: "Por Thor Or".
6) Thai Army Signal Corps, Inspector General's Depot, Bangkok. Short name: "Chor Sor 1". **D.Prgr:** 23.00-17.00.
7) Kasetsart University Broadc. St, Bangkhen. Short name: "Mor Kor 1".
8) Thai Army Defence Energy Dept, Bangkok. Short name: "Wor Por Thor 705".
9) Thai Army Broadc. St, Lop Bury.
10) Local Radio St, Hat Yai. Short name: "Wor Por Thor 5".
11) Royal Thai Air Force, Air Operations Command. St's: Khok Kratiam, Prachuap Khiri Khan and Nakhon Ratchasima (800), Sattahip (1320).
12) Thai Army Station, Pattani, Malay Peninsula.
13) Thai Police. Nakhon Ratchasima. Short name: "Sor Wor Por 2".
14) Local Radio St, Nakhon Ratchasima. Short name: "Wor Por Thor 3".
15) Local Radio St, Chiang Rai. Short name: "Wor Por Thor 10".
16) Local Radio St, Chian Mai. Short name: "Wor Por Thor 2".
17) St. of Thai Post & Telegraph St's: Ploen Chit (990), Laksi (1010, 1060).

18) Local Radio St, Bangkok. Short name: "Wor Por Thor 1".
19) Thai Army, 5th Infantry Division, Nakhon Si Thammarat.
20) Local Radio St, Nakhon Sawan. Short name: "Wor Por Thor 9".
21) Territorial Defence Dept. Broadc. St, Bangkok.
22) Royal Thai Air Force, Donmuang. Short name: "Sattani Witthayu sun nung".
23) Local Radio St, Udon Thani. Short name: "Wor Por Thor 7".
24) Thai Army Transportation Dept. Broadc. St, Bangkok. Short name: "Ko Sor Thor Bor".
25) Local Radio St, Ubon Ratchathani. Short name: "Wor Por Thor 6".
26) Local Radio St, Chon Buri. Short name: "Wor Por Thor 4".
27) Royal Thai Air Force, Tung Mahamek. Short name: "Tho Or 2".
28) St. of the Royal Household, Dusit Palace, Bangkok. Short name: "Or Sor".
29) Thai Army St, Yala, Malay Peninsula.
30) Thai Army St, 4th Infantry Division, Phitsanulok.
31) Prachinburi.
32) Songkhla.
33) Royal Navy St, Phuket, Malay Peninsula.
34) 2-0 Radio Broadc. St, Bangkok. Short name: "Song sun pleng lae kao". **D.Prgr. in Thai and English:** 23.00-17.00.
35) Local Radio St, Uttaradit. Short name: "Wor Por Thor 14".
36) Cavalry Center, Sara Buri.
37) Thai Army, 1st Infantry Division, Bangkok.

TIMOR (Portuguese)

L.T: GMT+8h — **Pr.L:** Portuguese.

EMISSORA DE RADIODIFUSAO DE TIMOR PORT.
ADDR: Dili. **Te:** 295 — **L.P:** St. Mgr: J. J. das Neves. Dir. Tec: F. Cosme.
STATION (G.C: 125.34E/08.33S): 3268kHz 91.78m 1kW.
HOME SCE. in Portuguese: D 04.30-06.00, 10.00 (Sun 00.30)-14.30 (Sat 15.00) exc. for times for Tetum (local language) and Chinese. **Tetum:** 10.15-10.25 (Thurs 10.45). **Chinese:** Wed and Sat 12.30-13.00.
ANN: "Aqui Emissora de Radiodifusão de Timor Português, funcionando na banda dos 90 metros, freq. de 3268kHz, A Voz de Portugal na Oceania".
INT-SIG: Gong — **V.** by QSL-card or letter. Recordings accepted — **FI:** By Gov, adv. and licence payments.
ALF: Esc. 100-.

TRUCIAL STATES

L.T: GMT+4h — **Pr.L:** English.

FORCES RADIO SHARJAH (Royal Air Force)
ADDR: Officer in charge, Royal Air Force Sharjah, B.F.P.O. 64, c/o GPO, London. **Te:** Sharjah 8256.
L.P: Dir. of Broadc: G. T. Sullivan.
STATION: 1480kHz 202.7m 0.25kW — **D.PRGR'S in English:** Mon-Fri 02.00-02.45, 10.30-19.30; Sat 02.00-21.00; Sun 05.00-19.05. **N** (relay BBC/WS): 02.00, 09.00, 15.00 (W), 18.00 not Sat) — **ANN:** "You are tuned to Forces Radio Sharjah, broadc. on 1480kHz 202.7m in the medium wave band" — **V.** by letter.

VOICE OF THE COAST (Comm.)
Location: Trucial Oman.
Reported using 737/6040/6185kHz (1kW).

TURKEY

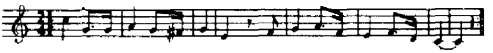
L.T: GMT+2h — **Pr.L:** Turkish — **E.C:** a/c 50 (varies).

TURKISH RADIO-TELEVISION CORPORATION
ADDR: TRT Türkiye Radyo Televizyon Kurumu, Genel Müdürlüeü, Ankara. **Cable:** TRT. **Te:** 181130. **Telex:** 7476. **L.P:** Dir. Gen: A. Öztrak. Asst. Dir. Gen. (Adm): M. Tascioglu. Asst. Dir. Gen. (Techn. Sce's): D. Erden. Secr. Gen. a. i. K. Akçakoca. Legal Adviser: T. Gürzümar.

STATIONS:	**kHz**	**m**	**kW**		**kHz**	**m**	**kW**
Ankara	182	1648	240	Van	1178	255.3	2
Erzurum	245	1224	100	Gaziantep	1210	247.9	2
Cukurova	647	463.7	300	Antalya	1295	231.7	2
Istanbul	701	428.0	150	Ankara II	1484	202.2	2
Izmir	926	324.0	100	Trabzon	1484	202.2	2
Istanbul II	963	311.5	2	Diyarbakir	7650	39.22	1
Kars	1165	257.5	2				

FM: Ankara III 88.0MHz 0.25kW.
HOME SCE: R. Ankara: 182kHz: D 04.30-22.00. 1063 kHz: 14.55 (Sat 09.55, Sun 08.00)-23.00 — **R. Istanbul:** 701kHz: W 04.25-22.00; Sun 04.25-22.00; 963kHz: 14.55 (Sat 09.55, Sun 08.00)-23.00 — **R. Izmir** (on all freq's): W 04.30-13.00, 15.00-22.00 (Sat/Sun 04.30-22.00).
R. Trabzon/Antalya/Gaziantep/Erzurum/Kars/Van: D 04.25-08.00, 09.55-12.30, 15.55-23.00.

ANN: "Burasi TRT Merkez Postasi 1648m, 182kHz, Uzun Dalga Ankara Radyosu" (Ankara): "Burasi TRT Bati Postalari 428m, 701kHz Orta Dalga Istanbul Radyosu" (Istanbul).
INT-SIG: R. Ankara and R. Istanbul.



FOREIGN SERVICE
STATIONS (G.C: 30.42E/39.54N):

Call	**kHz**	**m**	**kW**	**Call**	**kHz**	**m**	**kW**
TAT	9515	31.53	100	TAU	15160	19.79	100
TAP	9745	30.78	20	TAV	17820	16.84	100

Arabic — **kHz**
16.00-16.30 9745
18.30-19.30 9745

Bulgarian
17.00-17.30 9745

English
14.15-14.45a 17820
22.00-22.30b 15160

French
21.30-22.00b 15160

German
21.00-21.30b 15160

Greek
18.00-18.30 9745

Persian
13.45-14.15a 17820
15.30-16.00 9745

Pushtu — **kHz**
13.15-13.45a 17820

Rumanian
16.30-17.00 9745

Serbo-Croat
17.30-18.00 9745

Turkish
*04.20-11.30 } 9745,
*04.20-12.00(Sat) }
*04.20-11.00(Sun) } 15160
†11.00-13.00(Sun) } 9745,
†12.00-13.00(Sat) } 15160
†15.30-20.45 9515

Urdu
14.45-15.15d 17820

*) relay 182kHz — †) Voice of Turkey — a) to So. Ea. Asia; b) to We. Europe.

N: At the beginning of every tr. — **ANN:** E: "This is R. Ankara". F: "Ici postes émetteurs de Turquie, R. Ankara a ondes Courtes émettant sur une longueur d'onde de . . .". G: "Hier ist der Türkische Landessender Ankara. auf Kurzwelle . . .". Turkish: "Burasi Turkiye Radyo yayin postalari, kisa dalga Ankara Radyosu".
INT-SIG: As for Home Sce. — **V.** by QSL-card.

F.PL: Diyarbakir 209kHz 250kW — **PUB:** Prgr. schedule (weekly) for R. Ankara, R. Istanbul, R. Izmir, R. Antalya, R. Adana, R. Gaziantep—**ALF:** Turkish TL 20.

TECHNICAL UNIVERSITY OF ISTANBUL (Gov.)
ADDR: Teknik Universite, Elektrik Fakültesi, Yüsek Frekans Teknigi kürsüsü, Istanbul. **Te:** 482250.
HOME SERVICE: 6280kHz 47.77m 1kW — **FM:** 99.5 MHz 0.25kW: 18.00-20.30 (exc. Sat). Frequencies are shifted slightly if interference occurs.
D.PRGR: Classical Music and National (Turkish) Music.
ANN: Turkish: "Burasi Istanbul Teknik Universitesi Radyosu". E: "Here is the R. Station of the Technical University of Istanbul" — **INT-SIG:** "Turkish March" by Mozart — **V.** by letter. Rp.

ISTANBUL UNIVERSITY (Gov. Educ.)
ADDR: Fen Fakütesi (Faculty of Science), Tatbiki Fizik Merkezi, Istanbul. **Te:** 222808 — **L.P:** Dir. Gen: Prof. Dr. F. Yenicay. St. Mgr: Y. Kaini. Dir. Tec: Y. Kilichi.
STATION: 7450kHz 40.27m 1.75kW.
D.PRGR: 13.00-15.00 (propagation experiments), 16.00-18.00 — **University N:** 16.00.
ANN: "Burasi 40 metre dalgaboyu üzerinden tecrübe yayini yapan Istanbul Universitesi Fen Fakültesi Radyosu" ("Here is the Experimental R. Station of Istanbul University Faculty of Science broadcasting on 40m"). **V.** by letter. Recorded re. in E. preferred — **PUB:** Prgr. schedule free.

CINARLI SANAT ENSTITUSU DENEME RADYOSU (Education Schools)
ADDR: Izmir. **Te:** 33723.
STATIONS: 1200kHz 0.5kW — TAO6 7100kHz 0.25kW.
D.PRGR: 13.00-14.00 — **ANN:** "Izmir Cinarli Sanat Enstitüsü Deneme Radyosu".

TECHNICAL SCHOOL OF ISTANBUL (Educ.)
ADDR: Istanbul Yüksek Teknik Okulu, Yildiz, Istanbul.

STATION: TAO5 7143kHz 42.01m 1.6kW — **D.PRGR'S:** W 18.00-20.00, Sun 11.00-13.00. Language Lessons (30 min's) and Music (Western and Turkish recordings). **ANN:** "Burasi Istanbul Yüksek Teknik Okulu Radyosu". **V.** by letter.

VIETNAM (Dem. Rep.)

L.T: GMT+7h — **Pr.L:** Vietnamese.

THE VOICE OF VIETNAM (Gov.)
ADDR: No. 58 Quan-Su Street, Hanoi. **Te:** 4134.
STATIONS: Hanoi.

kHz	m	kHz	m	kHz	m
1010	297.0	7210	41.61	11755	25.52
1240	241.9	9760	30.74	11840	25.34
4684	64.05	9840	30.49	15020	19.97
5985	50.13				

HOME SCE: 21.14-23.30, 02.45-05.00, 07.30-08.30, 09.30-16.00 on 1010/4684/5985/11755/15020kHz (also on 9840/11840kHz when not used for Foreign Sce).
FOREIGN SERVICE: English: 23.00-23.30, 10.00-10.30, 13.00-13.30, 15.30-16.00. **French:** 23.30-23.45, 04.15-04.30, 13.30-14.00. **Japanese:** 21.30-22.00, 12.30-13.00, 14.00-14.30. **Cantonese:** 09.00-09.30, 14.30-15.00. **Korean:** 09.00-09.30 and 14.00-14.30. **Thai:** 05.30-06.00, 12.00-12.30. **Cambodian:** 09.30-10.00, 12.30-13.00. **Indonesian:** 09.30-10.00, 13.30-14.00. **Standard Chinese:** 04.30-05.00 and 11.30-12.00.
Freq's reported used for Foreign Sce. prgr's: 1240/5985/9760/9840/11755/15020kHz.
ANN: E: "This is the Voice of Vietnam broadc. from Hanoi, Capital of the Democratic Republic of Vietnam". **V.** by QSL-card. Prgr. schedules, pamphlets, pennants free. Rec. acc.

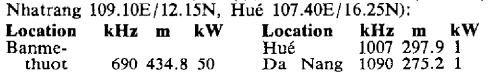
VIETNAM (Republic)

L.T: GMT+8h — **Pr.L:** Vietnamese — **EC:** a/c 50 (no).

R. VIETNAM, VTVN (Broadc. System of Vietnam)
ADDR: 3 Phan-dinh-Phung Str, Saigon. **Te:** 25935. **Cable:** VTVN — **L.P:** Dir. Gen: Lê van Duyên. Asst. Dir. Gen: Lêquang Phung. Dir. Tec: Trân Công Thân. Dir. Prgr: Vu du'c Minh. Dir. of N: Vo Hông Chi. Dir. of Comm. Broadc: N. Hiên.
STATIONS: Saigon (G.C: 106/40E/10.37N):

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
540	555.6	1	AFRS	7175	41.81	10	A
610	491.8	20/60	B	7245	41.41	20	B
870	344.8	50/200	A	9620	31.19	200/20	A
820	365.9	10	C	6165	48.66	200/20	A
1010	297.0	10	A	9755	30.76	10	C
4877	62.51	80/20	A	11950	25.10	25	A

HOME SCE. Prgr. A (Vietnamese): 24h — **N:** Every h on the h. **Prgr. B** (Chinese): 00.00-02.00, 05.00-06.15, 14.30-15.30 — Vietnamese (Forces Prgr.): 22.00-24.00, 03.30-05.00, 09.00-14.00. **N:** (Dictation) 06.15-07.00. **N. in English:** 15.30-16.00. **Prgr. C:** 21.58-00.30, 04.00-04.15, 10.00-13.00. **English:** 23.30-24.00, 12.00-12.30, 12.30-13.00 (N, Dictation). **French:** 11.00-12.00. **Cambodian:** 00.00-00.30, 10.15-11.00. **Thai:** 23.00-23.30 — **LL:** 22.30-23.00 (English), 04.00-04.15 (French), 10.00-10.15 (Vietnamese).
ANN: F: "Ici VTVN, la Voix de la république de Viet-Nam émettant de Saigon". E: This is VTVN, the Voice of the Republic of Viet-Nam broadc. from Saigon".
INT-SIG: Cither solo.



V. by QSL-card or letter. Rp. Recordings accepted.

REGIONAL STATIONS (G.C: Dalat 108.23E/11.45N; Nhatrang 109.10E/12.15N, Hué 107.40E/16.25N):

Location	kHz	m	kW	Location	kHz	m	kW
Banme-thuot	690	434.8	50	Hué	1007	297.9	1
Hué	720	416.7	10	Da Nang	1090	275.2	1
Cantho	920	326.1	10	Qui Nhon	1253	239.4	1
Quang Ngai	800	375.0	10	Dalat	1420	211.3	0.25
Baxuyen	920	326.1	10	Dalat	1440	208.3	1
Nha Trang	970	309.3	1	Da Nang	4810	62.37	1

Banmethout: 21.55-02.30, 04.00-06.00. 06.30-14.30. **Hué:** 21.30-02.30, 03.30-07.30, 09.30-14.30. **Quang Ngai:** 21.25-02.30, 02.55-07.30, 08.55-15.00. **Ba-Xuyên:** 22.00-01.00, 03.00-05.00, 08.00-11.00. **Nha Trang:** 22.00-01.00. 03.20-07.30, 09.30-15.15. **Da Nang:** 21.55-02.30, 03.55-06.20, 06.30-14.15. **Dalat:** 22.30-02.00, 04.00-06.00, 09.30-15.30. **Qui Nhon:** 23.00-01.15, 03.00-05.30, 12.30-13.30. **Can Tho:** 21.25-02.30, 03.30-07.30, 08.55-16.00.

PROVINCIAL STATIONS:

Location	kHz	m	kW	Location	kHz	m	kW
Phu Yên	1420	211.3	0.05	Kiên Hóa	710	422.5	0.05

Phu Yên: 22.30-24.00, 03.30-06.15, 10.30-14.15. **Kiên-Hóa:** 22.25-00.05, 03.55-05.40, 10.45-13.25

VOICE OF AMERICA RADIO STATION IN THE FAR EAST
ADDR: Voice of America, Washington D.C. 20547, USA.
STATION: Hue 760kHz 50kW: 11.00-1700 Vietnamese.
ANN: "This is the Voice of America" is announced in Vietnamese during program. Station identification is given in English at the beginning and end of daily transmission period: "This is the Voice of America station in the Far East".
INT-SIG: Musical signature "YANKEE DOODLE" is played at the beginning and conclusion of transmissions and within programs — **V.** by QSL-card. Reports required. No. Rp.

AMERICAN FORCES VIETNAM NETWORK (AFVN)
ADDR: APO, San Francisco, Calif 96309, USA.
STATIONS: 540 and 560kHz (50kW), 770, 850 and 900kHz (10kW), 930 and 1200kHz (1kW). **D.PRGR'S:** 24h — **N:** On the h — **V.** by QSL-card.

YEMEN

L.T: GMT+3h — **Pr.L:** Arabic — **EC:** a/c 50 (no).

RADIO SANA (Gov.)
ADDR: Sanaa — **L.P:** Dir. Gen: A. Sarham. Dir. Tec: H. Magdi.
STATIONS: 881kHz 340.5m 10kW — 4938kHz 60.75m 25kW — **HOME SCE. in Arabic:** 03.00-06.00, 11.00-15.00, 16.00-22.00 (approx). **N:** 04.00, 12.00, 17.00, 19.45.
ANN: "Huna San'aa" — **V.** by letter. Rp.

PACIFIC

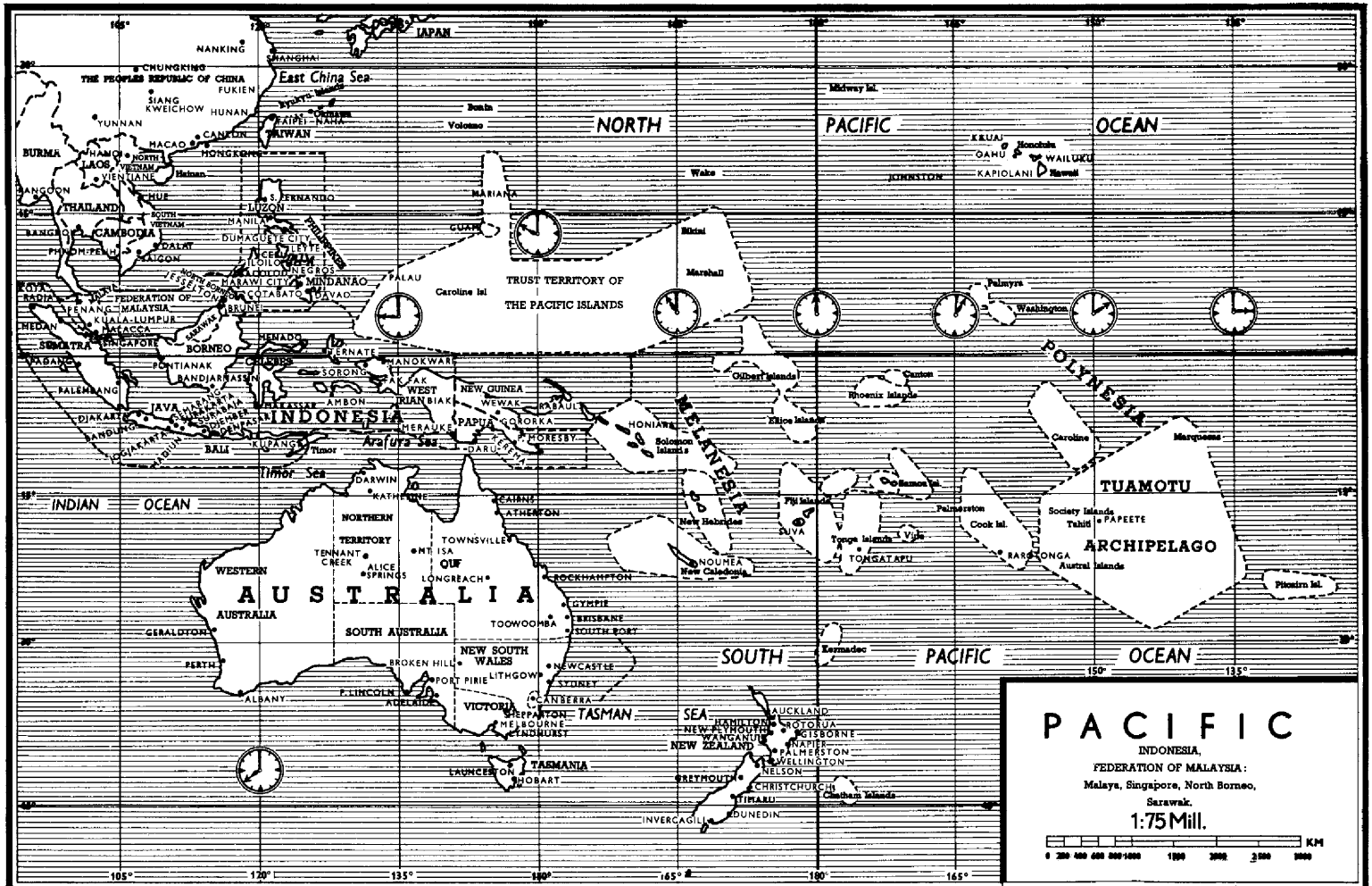
AUSTRALIA (Commonwealth of)

L.T: Tasmania: Oct-April: GMT+11h (April-Oct: GMT+10h); Ea. Austr: GMT+10h; So. Austr: GMT+9½h; We. Austr: GMT+8h.

Pr.L: English — **EC:** a/c 50 (yes).

AUSTRALIAN BROADCASTING COMMISSION (ABC)
Constituted under the Broadc. and TV-act 1942-67. The Australian National Broadc. Sce. prgr's are the responsibility of the ABC which is responsible to Parliament through the Postmaster-General. The technical sce's in Radio and TV studios are provided by the ABC Engineering Dept; the tr's are operated by the Post-master-General's Department.
ADDR: Head Office: 145 Elizabeth St, Box 487 G.P.O. Sydney 2001. **Cable:** ABCOM. **Te:** 31.0211.
L.P: Chmn: Sir Robert Madgwick, OBE. Gen. Mgr: T. S. Duckmanton. Dep. Gen. Mgr: C. W. Semmler. Asst. Gen. Mgr: W. S. Hamilton. Contr. of Prgr's: N. Hutchison. Contr. of N: W. K. Fraser. Contr. of Tech. Sce's: K. N. Middleton. Contr. of Management Sce's: P. A. Dorrian. Dir. Overseas Sce's: P. W. R. Homfray. Head of Inf. Sce's: S. L. Revill.
European Repr: A. Carmichael, 54 Portland Place, London W1, England; North American Repr: Ch. Buttrose, Suite 2708, 1270 Ave. of the Americas, New York 10020, USA; R. Sharp, c/o C.B.S. Bldg, 2020 M Street NW, Washington DC 20036, USA. Asian Repr: I. C. Shaw, 15 Peck Hay Rd, Singapore 9. Indonesian Repr: M. Carlton, Apt. 133-34, Djalan Kebon Sirih 40, Djakarta; Indian Repr: R. Weaver, 116 Sunder Nagar, New Delhi; Japanese Repr: S. T. O'Connor, Shinwa Bldg. 6th Floor, No. 10, 2-chome, Akasaka, Minato-ku, Tokyo; Malaysian Repr: J. Revitt, Room 705, Asia Insurance Bldg, Jalan Weld, Kuala Lumpur.

THE NATIONAL BROADCASTING SERVICE
MEDIUM WAVE SERVICE: 1=Metropolitan, 2=Regional. St's in bold types are relayed on Shortwave.


PACIFIC
INDONESIA,
FEDERATION OF MALAYSIA:
Malaya, Singapore, North Borneo,
Sarawak.
1:75 Mill.
KM
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
INDIAN OCEAN
TRUST TERRITORY OF THE PACIFIC ISLANDS
AUSTRALIA
INDONESIA
MELANESIA
POLYNESIA
TUAMOTU ARCHIPELAGO
TASMAN SEA
East China Sea
Timor Sea
Arafura Sea
THE PEOPLES REPUBLIC OF CHINA
FEDERATION OF MALAYSIA
NEW SOUTH WALES
VICTORIA
TASMANIA
NEW ZEALAND
NORTHERN TERRITORY
WESTERN AUSTRALIA
SOUTH AUSTRALIA
JAPAN
TAIWAN
BURMA
LAOS
CAMBODIA
THAILAND
SUMATRA
BORNEO
CELEBES
JAVA
BALI
PAPUA
NEW GUINEA
WEST IRIAN
HONIARA
Solomon Islands
New Hebrides
NOUMEA
New Caledonia
Fiji Islands
SUVA
Tonga Islands
TONGATAPU
Samoa Isl.
Palmerston
Cook Isl.
RAROTONGA
Austral Islands
Society Islands
Tahiti
PAPEETE
Caroline
Marquesas
Pitcairn Isl.
Kermadec
Chatham Islands
Caroline Isl
Bikini
Marshall
Midway Isl.
Wake
Palmyra
Washington
Gilbert Islands
Canton
Phoenix Islands
Ellice Islands
Bonin
Volcano
Okinawa
Hainan
Timor
Bangkok
Hanoi
Vientiane
Hue
Saigon
Dalat
Phnom-Penh
Kuala-Lumpur
Malacca
Singapore
Penang
Padang
Palembang
Djakarta
Bandung
Jogjakarta
Madiun
Kupang
Menado
Ternate
Manokwari
Sorong
Fak Fak
Biak
Merauke
Darwin
Katherine
Cairns
Atherton
Townsville
Mt Isa
Longreach
Alice Springs
Tennant Creek
Rockhampton
Gympie
Brisbane
South Port
Toowoomba
Newcastle
Sydney
Lithgow
Broken Hill
Port Pirie
Canberra
Shepparton
Melbourne
Lyndhurst
Hobart
Launceston
Albany
Perth
Geraldton
Kalgoorlie
Adelaide
P. Lincoln
Auckland
Hamilton
Rotorua
Gisborne
Napier
Palmerston
Wellington
Nelson
Greymouth
Christchurch
Timaru
Dunedin
Invercagill
Nanking
Shanghai
Chungking
Fukien
Siang
Kweichow
Hunan
Yunnan
Canton
Macao
Hongkong
Hainan
Luzon
Manila
Dumaguete City
Leyte
Cebu
Iloilo
Negros
Marawi City
Mindanao
Cotabato
Davao
Brunei
Sarawak
Jesselton
Mariana
Guam
Palau
Kauai
Oahu
Honolulu
Wailuku
Kapiolani
Hawaii
Johnston
Kyoto
Radia
Medan
Padang
Palembang
Bandung
Jogjakarta
Madiun
Kupang
Menado
Ternate
Sorong
Fak Fak
Biak
Merauke
Darwin
Katherine
Cairns
Atherton
Rockhampton
Gympie
Brisbane
Toowoomba
Newcastle
Sydney
Lithgow
Broken Hill
Port Pirie
Canberra
Shepparton
Melbourne
Lyndhurst
Hobart
Launceston
Albany
Perth
Geraldton
Kalgoorlie
Adelaide
Hamilton
Rotorua
Gisborne
Napier
Palmerston
Wellington
Nelson
Greymouth
Christchurch
Timaru
Dunedin
Invercagill
105°
120°
135°
150°
165°
180°
165°
150°
135°
30°
45°

Call	kHz	kW	Location	
Australian Capital Territory				
2CY[1]	850	10	Canberra	b)
2CN[1]	1540	2	Canberra	a)
New South Wales				
2CR[2]	550	50	Orange	a)
2ML[2]	560	0.4	Murwillumbah	a)
2FC[1]	610	50	Sydney	a)
2NU[2]	650	10	Tamworth	a)
2CO[2]	670	10	Albury	a)
2KP[2]	680	10	Kempsey	a)
2NR[2]	700	50	Grafton	a)
2TR[2]	720	0.2	Taree	a)
2BL[1]	740	50	Sydney	a)
2NB[2]	760	1	Broken Hill	c)
2AN[2]	760	0.05	Armidale	a)
2BA[2]	810	10	Bega	a)
2GL[2]	820	10	Glen Innes	a)
2UH[2]	1040	1	Muswellbrook	a)
2NC[1]	1230	10	Newcastle	a)
2NA[1]	1510	10	Newcastle	b)
2LG[2]	1570	0.2	Lithgow	a)
2CP[2]	1570	0.05	Cooma	b)
2WN[2]	1580	2	Wollongong	a)
Victoria				
3WV[2]	580	50	Horsham	a)
3AR[1]	**620**	**50**	**Melbourne**	**a)**
3LO[1]	**770**	**50**	**Melbourne**	**a)**
3GI[2]	830	10	Sale	a)
3WL[2]	1570	0.2	Warnambool	a)
Queensland				
4QL[2]	540	10	Longreach	a)
4QR[1]	590	50	Brisbane	a)
4AT[2]	600	4/2	Atherton	b)
4QN[2]	630	50	Townsville	a)
4QW[2]	710	10	St. George	a)
4QA[2]	720	2	Mackay	a)
4QS[2]	750	10	Toowoomba	a)
4QG[1]	790	10	Brisbane	b)
4RK[2]	840	10	Rockhampton	a)
4QB[2]	910	10	Maryborough	a)
4QO[2]	910	10	Eidsvold	a)
4QY[2]	940	2	Cairns	a)
4MI[2]	1080	0.2	Mount Isa	a)
4QD[2]	1550	50	Emeral	a)
4GM[2]	1570	0.2	Gympie	a)
4SO[2]	1590	0.2	Southport	a)
South Australia				
5CK[2]	640	10	Port Pirie	c)
5CL[1]	730	50	Adelaide	d)
5AN[1]	790	50	Adelaide	c)
5PA[2]	1160	2	Penola	c)
5LN[2]	1530	0.2	Port Lincoln	c)
5WM[2]	1580	0.05	Woomera R. Range	c)
5MG[2]	1580	0.2	Mt. Gambier	c)
5MV[2]	1590	2	Renmark	c)
Western Australia				
6DL[2]	530	10	Dalwallinu	e)
6WA[2]	560	50	Wagin	e)
6NM[2]	600	0.2	Northam	e)
6PH[2]	600	2	Port Hedland	
6AL[2]	650	0.4	Albany	e)
6GF[2]	660	2	Kalgoorlie	e)
6BE[2]	670	0.05	Broome	
6WF[1]	690	50	Perth	e)
6WN[1]	810	10	Perth	f)
6GN[2]	830	2	Geraldton	e)
6ED[2]	840	1	Esperance	e)
6CA[2]	850	0.2	Carnarvon	e)
6DB[2]	870	2	Derby	
Tasmania				
7ZL[1]	600	10	Hobart	b)
7QN[2]	830	0.4	Queenstown	a)
7NT[2]	710	10	Launceston	a)
7ZR[1]	940	10	Hobart	a)
Northern Territory				
8DR[2]	650	2	Darwin	c)
8KN[2]	670	0.05	Katherine	c)
8TC[2]	680	0.05	Tennant Creek	e)
8AL[2]	1530	0.2	Alice Springs	c)
Papua/New Guinea				
9PA	**1250**	**2**	**Port Moresby**	**b)**
9RB	810	2	Rabaul	g)

a) 20.00 (Sun 20.30)-14.02; b) 20.00 (Sun 20.30)-14.00; c) 20.30-14.32; d) 20.30-14.30; e) 22.00 (Sun 22.30)-16.02; f) 22.00 (Sun 22.30)-16.00; g) 20.00 (Sun 20.30)-13.00 (Sat 14.00).

NEWS: **20.00** (2CY, 2FC, 2NR, 3WV); **20.30** (2FC, 2NR, 3WV, 4QN); **20.45** (2CY, 2NR, 2BL, 3WV, 4QR, 5AN); **21.00** (4QN, 5AN); **21.15** (2FC, 5CL); **21.45** (2CY, 2NR, 2BL, 3WV, 4QR, 5AN); **22.00** (2CY, 2NR, 4QN, 6WA, 6WF, 6WN); **22.15** (5CL); **22.30** (6WA); **22.45** (6WA, 6WF); **00.00** (6WA); **02.30** (2CY, 2FC, 2NR, 3WV, 6WA, 6WN); **03.00** (2BL, 4QR, 5CL, 6WF); **03.30** (2CY, 2FC, 2NR, 3WV); **03.45** (4QN, 5CL); **04.00** (5AN); **04.30** (6WA, 6WN); **06.00** (2CY, 2FC, 2NR, 3WV, 5CL, 6WA, 6WN); **08.00** (2CY, 2BL, 2NR, 3WV, 5AN, 6WA, 6WN); **08.53** (2CY, 2NR, 3WV, 4QN); **09.00** (2CY, 2FC, 2NR, 2BL, 3WV, 4QR, 5CL, 5AN, 6WA, 6WF); **11.00** (2NR, 3WV, 6WA, 6WN); **12.00** (2CY, 2FC, 5CL); **13.00** (2CY, 2FC, 2NR, 3WV, 5CL, 6WA); **13.55** (2BL, 2NR, 3WV); **14.25** (5AN); **15.00** (6WA, 6WN); **15.55** (6WA, 6WF).

DOMESTIC SHORT WAVE SERVICE

ADDR: Sydney: A.B.C, Box 487, G.P.O. 2001 — **Melbourne:** A.B.C, Box 1686, G.P.O, 3001 — **Brisbane:** A.B.C, Box 293E, G.P.O, 4001 — **Perth:** A.B.C, Box 190D, G.P.O, 6001 — **Papua/New Guinea:** A.B.C, Box 1359, Boroka.

STATIONS: G.C: Sydney (150.54E/33.57S): VLI (2kW) — **Melbourne** (145.25E/37.20S): VLG, WLH and VLR 10kW) — **Brisbane** (153.01E/27.19S): VLQ and VLM (10kW) — **Perth** (115.49E/31.51S): VLW (10kW and 50kW) — **Port Moresby** (147.08/09.27S): VLT and VLK (10kW).

Call	kHz	m	h. of tr. W	Sun
VLI6	6090	49.26	20.00-14.02	20.30-14.02
VLH11	11880	25.25	20.00-22.30	20.30-22.30
VLH15	15230	19.70	22.45-08.15	22.45-08.15
VLH9	9680	30.99	08.30-14.00	08.30-14.00
VLR6	6150	48.78	20.00-22.15	20.30-22.15
			08.30-14.02	08.30-14.02
VLR9	9680	30.99	22.30-08.30	22.30-08.30
VLQ9	9660	31.06	20.00-14.02	20.30-14.02
VLM4	4920	60.98	20.00-14.02	20.30-14.02
VLW6	6140	48.86	22.00-01.00	22.30-01.00
			10.00-16.02	10.00-16.02
VLW9	9610	31.22	22.00-10.30	22.30-10.30
			10.30-16.02	*10.30-16.02
VLW15	15425	19.45	*23.00-10.15	*23.00-10.15
VLT4	4890	61.35	20.00-22.00	20.30-22.00
			07.30-14.00	07.30-14.00
VLT9	9520	31.51	22.15-07.15	
VLK3	3925	76.43	as VLT4	
VLK4	4890	61.35	22.15-07.15	22.15-07.15
VLG	15220	19.71	20.00-22.00	20.00-22.00

*) 50kW.

VLG takes Victorian regional prgr's and rel. from R. Australia; VLR relays 3LO, VLH relays 3AR; VLI takes N.S.W. regional prgr's; VLQ and VLM takes Queensland regional prgr's; VLW takes We. Australian regional prgr's; VLT and VLK relay 9PA.

N: 20.00 (not Sun), 20.30 (not Sun), 20.45, 21.15 (not Sun), 21.45, 23.00 (Sun), 02.30, 03.30, 06.00 (not Sun), 08.00, 09.00, 11.00, 12.00, 13.00 (BBC and Aust), 13.55. **Wrp:** Included in N, also 22.57 (Sun), 02.40 (Sat), 02.45 (Mon-Fri), 03.45 (Mon-Fri), 08.28 (Sun), 08.55 (Sat).

T.S: On the h — NOTE: Although times are in GMT, calendar days apply to the Ea. States of Aust. only. **ANN:** "This is the A.B.C. . . . . ." — **INT-SIG:** Three Gongs (C.F.A.) — **V.** by QSL-card and letter. Re. to A.B.C. in capital city of state in which st. is located.

PUB: "TV Times", "A.B.C. R. Guide", "The A.B.C. Reports . . . . . ", R. Australia Prgr. Guide, Schools Broadcasts booklets, Boyer Lectures, and other publications as necessary — **FI:** By annual appropriation from Commonwealth Gov's budget — **ALF:** Radio and TV (combined): A$20-A$6.50 (radio only), A$14 (TV only).

OVERSEAS SERVICE — RADIO AUSTRALIA

ADDR: Radio Australia, P.O. Box 428G, G.P.O, Melbourne. **Cable:** Newscast. **Te:** 676911.

TRANSMITTERS: The tr's of Collins, STC, AWA and RCA manufacture are located at Shepparton (145.25E/36.20S) 4×100kW, 2×50kW and 1×10kW, Lyndhurst (145.16E/38.03S) 2×10kW, and Darwin (130.38E/12.25S) 3×250kW and are capable of operating on any freq. allocated for international broadc. in the 11, 13, 16, 19, 25, 31, 41 and 49 m.b.

NOTE: Radio Australia in common with all international broadcasters has no assigned freq's but is allocated certain freq's for use during definite periods.

SERVICES: I=So./So. Ea./So. We. As; II=Ea. As./No. Pacific Isl; III=So. Pacific Isl; IV=Mid-Pacific Isl; V=British Isles/Eu; VI=No. America (Ea.); VII=No. America (We); VIII=Africa.

Antennas: Shepparton and Lyndhurst: Curtain Arrays. Darwin: Log Periodic.

Transmissions: January-April, 1970:

Frequencies: *) 50kW; †) 10kW; others 100kW.

	English	kHz(Beam)
I:	22.15-22.45	15220(320°)
	22.45-01.00	15220(320°)
		17870(308°)
	01.00-07.00	17870(308°)
		*21540(320°)
	07.00-09.00	15320(320°)
		17870(308°)
		*21540(320°)
	09.00-09.30	17870(308°)
		*21540(320°)
	09.30-10.30	*11880(308°)
		*21540(320°)
	10.30-11.00	*11880(308°)
	11.00-14.30	*9570(308°)
		*11880(320°)
	14.30-16.00	9550(308°)
		*9570(308°)
		*11880(320°)
	16.00-17.30	7220(308°)
		9550(308°)
		*11880(320°)
II:	20.59-23.00	*15240(342°)
		*17715(342°)
	23.00-00.00	*15240(342°)
	06.10-09.30	17820(342°)
	08.59-10.00	11810(342°)
		†15140(347°)
	10.00-11.00	†15140(347°)
	11.00-12.12	9580(342°)
		11810(342°)
		†15140(347°)
	12.12-14.00	*15140(347°)
III:	18.00-22.00	11920(118°)
	02.00-08.00	*15240(110°)
	06.45-08.30	9560(128°)
		*11710(128°)
	08.30-09.15	*11710(128°)
IV:	18.00-20.00	9540 (63°)
		†11840 (63°)
	20.00-22.00	9540 (63°)
		†11840 (63°)
		†15160 (42°)
	22.00-00.30	†11840 (63°)
		†15160 (42°)

	English	kHz(Beam)
	00.30-08.30	†15160 (42°)
	08.30-12.12	†7205 (52°)
V:	06.45-07.45	9560(128°)
		*11710(128°)
VI:	12.15-13.15	9580 (63°)
		*11710 (63°)
VII:	01.00-03.00	15170 (63°)
		17775 (63°)
		†21740 (63°)
VIII:	03.30-05.00	15105(250°)
		17820(250°)
	French	
I:	23.15-00.15	*17715(320°)
IV:	00.15-01.15	†15240 (52°)
	05.00-06.00	15220 (73°)
VIII:	05.00-06.00	15105(250°)
		17820(250°)
	Indonesian	
I:	22.30-00.30	11780(342°)
		15320(308°)
	09.00-10.00	15320(308°)
	10.00-10.30	11740(308°)
		15320(308°)
	10.30-11.00	11740(308°)
	11.00-11.30	7220(308°)
		11740(308°)
	11.30-15.00	7220(308°)
	15.00-16.00	7220(308°)
		11740(308°)
	Mandarin	
I:	11.30-13.30	11740(308°)
	14.30-15.00	11740(308°)
	Cantonese	
I:	13.30-14.30	11740(308°)
	Japanese	
II:	10.00-11.00	9580(342°)
		11810(342°)
	Vietnamese	
I:	12.30-13.30	11790(320°)
	Thai	
I:	13.30-14.30	9550(308°)
		11790(320°)

Frequencies are subject to alteration. Details of alterations are given in the transmissions concerned for three days before the effective date and in "Transmission Parade" and "DX-ers Calling".

Schedule for tr's from Darwin (250kW):
I=Ea. Asia/Japan; II=Ea. and So. Ea. Asia; III=So. and So. Ea. Asia; IV=So. Ea. Asia; V=Indonesia; VI=Vietnam; VII=Thailand.

English	Area	kHz(Beam)
21.00-22.15	I	7180(340°)
00.15-09.00	II	17715(340°)
00.30-09.00	II	21485(340°)
00.30-12.30	III	15355(301°)
14.30-17.30	III	15355(301°)
15.00-17.30	I	9595(340°)
16.00-17.30	IV	6055(301°)
Indonesian		
22.30-00.30	V	11840(301°)
		15355(301°)
09.00-10.30	V	11960(301°)
09.00-11.30	V	9595(301°)
10.30-16.00	V	6055(301°)
15.00-16.00	V	9595(340°)

French	Area	kHz(Beam)
23.15-00.15	IV	15130(301°)
Mandarin		
11.30-13.30	II	9595(340°)
14.30-15.00	II	9595(340°)
Cantonese		
13.30-14.30	II	9595(340°)
Vietnamese		
12.30-13.30	VI	9650(301°)
Thai		
13.30-14.30	VII	9650(301°)

This schedule is subject to alteration at short notice.

FIXED PROGRAMMES

ENGLISH: News: 00.15 (I/IV), 01.30 (I/IV/VI/VII), 02.30 (I/IV/VI/VII), 03.45 (VIII), 04.00 (I/IV), 04.45 (VIII), 05.00 (I/IV), 06.00 (I/IV), 07.00 (I/II/IV), 07.15 V, 09.00 (I/II/III/IV), 10.00 (I/II/IV), 11.00 (I/II/IV), 12.00 (I/II/IV), 12.30 (VI), 13.00 (I/II), 14.00 (I), 15.00 (I), 16.00 (I), 17.00 (I), 18.00 (III/IV), 19.00 (III/IV), 20.00 (III/IV), 21.00 (II/III/IV), 21.45 (II/III/IV), 22.45 (I/II/IV), 23.00 (Forces) (I), 23.30 (I/II/IV) — **News Focus:** Wed/Thurs/Fri/Sat 11.10 (I/II/IV), 12.45 (VI), 13.10 (I/II), 16.10 (I), 19.10 (III/IV) — **International Report:** Sun 19.10 (III/IV), Mon 03.55 (VIII), 07.00 (V). **Commentary:** Mon-Fri 07.10 (I/II/IV), 07.35 (III/V), 10.25 (I/II/IV), 13.05 (VI), 17.15 (I).

Mailbags: Pacific, Asia, Africa Edition: Sat 18.30 (III/IV), 21.15 (II/III/IV), Sun 01.00 (I/IV), 03.55 (VIII), 11.30 (I/II/IV). **British Isles, European Edition:** 07.00 (V).

LISTENERS CLUB

You can join Radio Australia's Listeners Club—and receive the club badge and certificate—by: Providing 12 reception reports at a rate of two per month over a period of six months.

Numbering each report 1, 2, 3, etc., to 12 to assist us in keeping records.

Providing the following details in each report: name of programme, frequency, date, time, comment on reception quality, and type of receiver.

It is preferable, though not essential, to send these reports on Radio Australia reception report cards, which are available on application to: Radio Australia, Melbourne, Australia. Verification cards are sent for each correct reception report.

North America Edition: Sun 12.45 (VI), Mon. 01.10 (VI/VII). **DX-ers Calling:** Sat 21.30 (II/III/IV); Sun 04.30 (VIII), 07.30 (V), 13.00 (VI), 15.30 (I), Mon 02.15 (VI/VII) — **Stock Exchange Report:** Mon-Fri 08.00 (I/III/IV), 11.30 (II) — **Request Prgr's: Listeners' Choice:** Sun 11.10 (I/II/IV), Daily 14.30 (I). **Music By Request:** Daily 00.30 (I/IV) — **Wake Up With Williams:** Sun-Thurs 22.15 (I/II/IV) — **Calling Antarctica:** Fri 03.00, 04.00 and 09.15 — **Eight Bells:** Sun 08.30 (I/II/III/IV), Mon 04.15 (VIII), Thurs 12.30 (I/II) — **Colleagues' Choice:** Wed 05.45 (I/IV), Thurs 02.00 (VI/VII), 04.15 (VIII).
Sport: Results Daily (except Sun) at 08.30 (I/II/III/IV). Descriptions and results major sports events in Australia and Overseas Sat 02.00-07.30 to (I) on 21540kHz and to III on 15240kHz. World Sport Report: Tues 07.45 (I/II/III/IV), 12.15 (I/II/IV) — **Prgr. Preview:** 00.55 (I), 04.55 (I/IV), 09.10 (I/II/IV), 10.25 (I/II/IV). A preview is given at the start of each daily tr. to No. America, British Isles/Europe and Africa and also three min's before the close of these respective tr's.
Transmission Parade: Fri 20.55 (III/IV), 22.10 (II/IV); Sat 05.45 (I/IV), 14.25 (I) — **National Music:** Music by Australian artists and composers is broadcast regularly in all tr's.
FRENCH: News: 23.30 (I), 00.30 (IV), 05.30 (IV/VIII). **Commentary:** Mon-Fri 23.42 (I), Tues-Sat 01.00 (IV), 05.42 (IV/VIII). **International Report:** Mon 00.00 (I), 00.45 (IV), 05.15 (IV/VIII). **Mailbag:** Sun 00.00 (I), 00.45 (IV), 05.45 (IV/VIII).
INDONESIAN: News: 23.15, 00.15, 09.30, 11.00, 12.30, 14.00, 15.30. **Breakfast Sessions:** D 22.32. **Current Affairs:** Tues/Wed/Thurs/Fri/Sat 11.45. **Mailbag:** Sat 10.00, Sun 13.00. **English Lessons for Indonesians:** Mon/Wed 10.00, Tues/Sat 13.00. **Commentary:** Mon-Fri 14.12.
JAPANESE: News: 10.30. **International Report:** Sat 10.10. **Mailbag:** Sun 10.02. **Commentary:** Mon-Fri 10.42. **DX-Session:** Sun 10.45.
MANDARIN: News: 11.45, 13.15. **News Focus:** Sat 12.30. **Commentary:** Mon-Fri 11.57. **Mailbag:** Sun 12.30.
CANTONESE: News: 14.00. **News Focus:** Sat 13.40. **Commentary:** Mon-Fri 14.12.

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VIETNAMESE: News: 13.00. **International Report:** Sat 13.15. **Commentary:** Mon-Fri 13.12. **English Lessons for Vietnamese:** Sun/Sat 12.35. **Mailbag:** Sun 13.15.
THAI: News: 14.00. **International Report:** Mon 13.45. **Commentary:** Mon-Fri 14.15. **English Lessons for Thais:** Fri 13.32. **Mailbag:** Sun 13.45.
ANNOUNCEMENTS: "This is Radio Australia transmitting the Overseas Service from the Melbourne studios of the A.B.C; You are tuned to R. Australia, the Overseas Service of the A.B.C." Frequencies and Wave Bands are given at regular intervals.
TUNING AND INTERVAL-SIGNAL: Celeste playing "Waltzing Matilda" for five minutes preceeding programmes to all areas. Transmissions commence with the laugh of the Australian bird, the Kookaburra.
VERIFICATION: Listeners' Reports are welcomed and correct reports are confirmed by verification card.
PUBLICATIONS: A prgr. booklet is available free upon application.

PRIVATELY-OWNED BROADCASTING STATIONS associated in a body called:
Federation of Australian Commercial Broadcasters — **Addr:** Box 7024 GPO, Sydney 2001. **Te:** 29-1738. **Cable:** AFOBS — **L.P:** Federal Dir: E. L. Sommerlad. Exec. Secr: H. M. Goodsall. Research and Promotion Officer: J. H. Stuzaker. Public Rel. Officer: R. Logie.
Regional Offices: 7th Floor, 64 Elizabeth St, Melbourne 3000. **Te:** 63-7255; 187-191 Queen St, Brisbane 4000; 177 Currie St, Adelaide 5000; PO Box X 2296, Perth 6001.
The Australian Broadcasting Control Board is a Go. Authority responsible for the planning of the broadc. sce's ensuring that technical equipment and prgr. sce's are of adequate standards and determining power, frequency and periods of operating of st's. **Addr:** 373 Elizabeth St, Melbourne C.1. **Cable:** Conboard. **Te:** 30-4321.
2CH is controlled by the New South Wales Council of Churches, **2SM** by the Roman Catholic Church, **5KA** and **5AU** by the Methodist Church.
Abbreviations: Amalg=Amalgamated, Ass=Associated, Me=Melbourne, B.Casters=Broadcasters, Transc=Transcontinental.
Note: Times quoted are GMT, but refer to local calendar days. *) Capital city stations.

NEW SOUTH WALES: Call letter: 2-

	Call	kHz	kW	Times		Call	kHz	kW	Times
1)	KM	530	2(d)	a	20)	DU	1250	2	b12
2)	BH	660	0.2	c	21)	SM	*1270	5	24h
3)	KA	780	2	a7	22)	TM	1290	2	b1
4)	GB	*870	5	24h	23)	LF	1340	2	c4
5)	LM	900	2/1	c1	24)	NX	1360	2	24h
6)	XL	920	2/1	24h	25)	LT	1370	0.5	c3
7)	UE	*950	5	24h	26)	GN	1380	2	c3
8)	GZ	990	2	c2	27)	PK	1400	2	c3
9)	KY	*1020	5	24h	28)	KO	1410	2	24h
10)	CA	1050	2	b	29)	WL	1430	2	c2
11)	RG	1070	2/1	c3	30)	MW	1440	2	b14
12)	MO	1080	2	b2	31)	MG	1450	2	c6
13)	UW	*1110	5	24h	32)	NM	1460	2/1	b2
14)	AD	1130	2	c5	33)	BE	1480	2/1	c19
15)	HD	1140	2	24h	34)	AY	1490	2	b3
16)	WG	1150	2	b3	35)	BS	1500	2	c7
17)	CH	*1170	5	b9	36)	QN	1520	2	c8
18)	NZ	1190	2	b10	37)	VM	1530	2/0.5	a3
19)	GF	1210	2	b1	38)	RE	1560	2	b2

VICTORIA: Call letter: 3-

39)	UL	530	2(d)	b15	48)	SR	1260	2	a4
40)	UZ	*930	5	24h	49)	AW	1280	5	24h
41)	BO	960	2	b4	50)	BA	1320	2	24h
42)	HA	1000	2	a1	51)	SH	1330	2	c3
43)	DB	*1030	5	24h	52)	GL	1350	2	b17
43)	LK	1090	2	a6	53)	XY	*1420	5	24h
44)	CS	1130	2(d)	a1	54)	CV	1440	2	a2
45)	KZ	*1180	5	24h	55)	MA	1470	2	d1
46)	YB	1210	2	b15	56)	AK	*1500	5	†
47)	TR	1240	2	24h	57)	NE	1600	2/1	a4

QUEENSLAND: Call letter: 4-

58)	KZ	530	2	24h	68)	IP	1010	2	24h
59)	AM	560	2		69)	SB	1060	2	c10
60)	KQ	*690	2	24h	70)	LG	1100	2	b6
61)	TO	780	2	b18	71)	BC	*1120	2	24h
62)	GR	860	2	b2	72)	MB	1160	2	b2
63)	WK	880	2/1	c10	73)	GG	1200	2	b23
64)	VL	920	2/1	c11	74)	AK	1220	2	24h
65)	AY	960	2	b1	74)	BK	*1300	2	24h
66)	RO	1000	2	b19	75)	NA	1320	2	b7
67)	CA	1010	2	c4	76)	BU	1330	2	b12

Call	kHz	kW	Times	Call	kHz	kW	Times
77) GY	1350	2/1	b7	80) BH	*1390	2(d)	a6
78) LM	1370	2	c12	81) ZR	1480	2/1	c13
79) MK	1380	2	b8				

SOUTH AUSTRALIA:

Call letter: 5-							
82) RM	800	2	c18	84) AD	*1310	2	24h
83) DN	*970	2	24h	84) SE	1370	0.5	c16
84) PI	1040	2	c15	86) AU	1450	2(d)	c18
85) KA	*1200	2	24h	84) MU	1460	2/1	c17

WESTERN AUSTRALIA:

Call letter: 6-							
87) VA	780	2	h	88) PM	*1000	2	g
88) AM	860	2	g	88) GE	1010	2	g
89) PR	*880	2	24h	90) WB	1070	2	h
90) BY	900	2	h	90) IX	*1080	2	24h
89) TZ	960	2	f2	90) MD	1100	2	h
91) NA	920	2	24h	89) CI	1130	2	f2
88) KG	980	2	g	91) KY	*1320	2	24h

TASMANIA: Call letter: 7-

92) SD	540	2	f	96) AD	900	0.5	d
93) BU	560	2/1	c9	97) FX	1010	2	‡
94) QT	720	0.5	e	98) HT	*1080	2	b
95) HO	*860	2	a6	99) LA	1100	2	b22

NORTHERN TERRITORY:

Call letter: 8-			
100)DN	1240	2	c5

*) 16/4-15/8: 21.00-07.00; 16/8-15/10: 21.00-08.00; 16/10-15/2: 20.00-09.00; 16/2-15/4: 20.00-08.00. †) 18.30 (Sun 19.30)-15.00. ‡) 18.45-14.00. a=19.00 (Sun 20.30)-13.30 (Sun 12.15; a1=19.00 (Sun 21.30)-13.30 (Sat 14.00, Sun 12.30); a2=19.00 (Sun 20.00)-14.00 (Sun 13.00); a3= 19.00 (Sun 20.30)-14.00 (Sat 15.00, Sun 13.00); a4=19.00 (Sun 21.00)-13.30 (Sat 14.00, Sun 13.00); a5=19.00 (Sun 20.00-13.00 (Sat 14.00); a6=19.00-15.00; a7=19.00-12.30; b=19.30 (Sun 20.00)-14.00; b1=19.30 (Sun 20.00)-13.30; b2=19.30-13.00 (Sat 14.00); b3=19.30 (Sun 21.00)-14.00 (Sun 13.00); b4=19.30 (Sun 21.00)-14.00 (Sun 13.30); b5=19.30 (Sun 21.00)-15.00; b6=20.00 (Sun 22.00)-12.00 (Sat 14.00, Sun 12.30); b7=19.30-12.00; b8=19.30-12.30; b9=19.30 (Sun 22.00)-14.00 (Sun 13.00); b10=19.30 (Sun 21.00)-13.00 (Sat 14.00, Sun 12.30); b11=19.30 (Sun 21.00)-13.45; b12=19.30 (Sun 20.00)-14.00 (Sat 15.00, Sun 13.15); b13=19.30 (Sun 21.30)-12.30 (Sun 12.00); b14=19.30 (Sun 22.00)-13.00 (Sun 12.00); b15=19.00 (Sun 21.00)-13.30 (Sat 14.00); b16=19,30-13.30 (Sat 15.00); b17=19.30 (Sun 21.30)-13.00 (Sat/Sun 13.30); b18=19.30 (Sun 20.30)-13.30 (Sat 14.00); b19=19.30 (Sun 20.00)-13.00 (Sun 12.30); b20=19.30 (Sun 21.00)-12.30 (Sat 13.30); b21=19.30 (Sun 21.45)-12.30 (Sun 12.00); b22=19.30 (Sun 21.30)-14.00 (Sun 13.00); b23=19.00-16.00; c=20.00 (Sun 22.00)-13.00 (Sun 12.00; c1=20.00 (Sun 22.00)-13.30 (Sat 14.00); c2=20.00-12.30; c3=20.00 (Sun 21.00)-13.00; c4=20.00-13.05 (Sun 13.00); c5=20.00-13.30; c6=20.00 (Sat 21.00, Sun 21.30)-12.30 (Sat 14.00); c7=19.00-13.30 (Sat 14.00), Sun 20.00-13.00; c8=20.00 (Sun 21.30)-12.30 (Sat 13.00, Sun 12.00); c9=20.00 (Sun 22.00)-12.30 (Sat 13.00); c10=20.00 (Sun 21.00)-12.30; c11=20.00 (Sun 21.30)-12.30 (Sat 14.00, Sun 12.00); c12=20.00 (Sun 22.00)-13.00 (Sat 14.00, Sun 12.15; c13=20.00 (Sun 22.00)-12.30; c14=20.00 (Sun 22.30)-13.30 (Sat 14.30); c15=20.00 (Sun 22.15)-13.45 (Sat 14.30, Sun 13.30); c16=20.00 (Sun 22.15)-13.30 (Sat 14.30); c17=20.00 (Sun 22.15)-14.30 (Sun 13.30); c18=20.00-14.00 (Sat 14.30); c19=20.00-12.00; d=20.30 (Sun 22.30)-13.00 (Sun 12.30); d1=20.30-12.30; e=20.45-03.00, 06.00-12.30; f=21.00-17.00; f2=21.00 (Sun 22.45)-16.00 (Sun 14.30); f3=Mon-Fri 21.00-06.30, 09.00-14.30, Sat 21.00-15.00, Sun 22.45-14.30; g=21.45-16.00; g1=21.45-15.00; g2=22.00-14.30; h=21.00-15.00 (Sat 16.00), Sun 00.00-14.00.

1) **R. Kempsey Ltd,** P.O. Box 136, West Kempsey 2440. **Te:** 36. **LP:** Mgr: G. McBrian. **N:** On the h and 21.45, 08.30. **Ann:** "2KM the twin tower st". **V.** by QSL-card.
2) **Broadc. St. 2BH,** P.O. Box 432, Broken Hill 2880. **L.P:** Mgr: J. H. Niemann. Tec. Dir: R. E. Wright. **N:** 21.30, 02.30, 08.15, 12.30. **Ann:** "R Silver City". **V.** by QSL-card. Rp.
3) **Transcontinental Broadc. Corp. Ltd.,** P.O. Box 32, Katoomba 2780. **L.P:** Gen. Mgr: L. B. Harte. St. Mgr: J. C. Canry. **N:** On the h. **Ann:** "Voice of the Mountains". **V.** by letter. Rp.
4) **Broadc. St. 2GB Pty. Ltd,** Box 4290, GPO, Sydney 2001. **Te:** 20360. **L.P:** Mgr: D. L. Foster. Dir. Tec: L. N. Schultz. **N:** Every h on the h. **Ann:** "Number one in Sydney". **V.** by QSL-card.
5) **Richmond River B.Casters Pty. Ltd,** P.O. Box 44, Lismore 2480. **Te:** 2351. **L.P:** Mgr: Vacant. Dir. Tec: H. Green. **N:** 20.30, 21.30, 22.30, 02.00, 08.30, 12.00. **Ann:** "The voice of Summerland". **V.** by letter. Rp.
6) **Cooma B.Casters Pty. Ltd,** Box 58, Cooma 2630. **Te:** 21234. **L.P:** Man. Dir: J. S. Scott. **V.** prepared card and postage required for QSL.
7) **2UE Sydney Pty. Ltd,** 237 Miller St, No. Sydney 2060. **Te:** 92-0444. **L.P:** Gen. Mgr: A. D. Faulkner. St. Mgr: B. D. McClenaughan **N:** Every h. **V.** by QSL-card. Recordings accepted.
8) **Country Broadc. Sces. Pty. Ltd,** P.O. Box 465, Orange 2800. **L.P:** Gen. Mgr: A. Ridley. **N:** On the h. **Ann:** "2GZ Central New South Wales". **V.** by letter.
9) **Broadc. St. 2KY,** Orwell St, Potts Point 2011 (owned by the Labour Council of New South Wales). **Te:** 353051. **L.P:** Mgr: L. R. Hood. Dir. Tec: L. A. Spinner. **N:** Every h on the h. **Ann:** "2KY in Centre of your Radio Dial". **V.** by QSL-card. Rp.
10) **Canberra B.Casters Pty. Ltd,** Box 163 City, Canberra 2601. **Te:** 41234. **L.P:** Mgr: P. R. Carrodus. Dir. Tec: H. T. Beazley. **N:** At 19.30 then every h. **Ann:** "2CA the Two State Station". **V.** by QSL-card.
11) **2RG B.Casters Pty. Ltd,** P.O. Box 1005, Griffith 2680. **Te:** 877. **L.P:** Mgr: W. R. Gamble. Dir. Tec: C. C. Lock. **D.Prgr:** 20.00-13.00. **N:** Every h on the h and at 20.30, 21.30, 22.30, 02.30, 03.30. **V.** by QSL-card and letter.
12) **2MO Gunnedah Pty. Ltd,** P.O. Box 62, Gunnedah 2380. **L.P:** Mgr: L. Worms. **N:** Every h on the h 20.00-12.00 and 21.30, 02.30, 08.30. **V.** by letter.
13) **Commonwealth Broadc. Corp. Pty. Ltd,** GPO Box 4241, Sydney 2001. **L.P:** Gen. Mgr: L. C. Hynes. **N:** Every h on the h. **V.** by letter.
14) **New England B.Casters Pty. Ltd,** P.O. Box 270, Armidale 2350. **L.P:** Mgr: R. V. Brislan.
15) **Airsales Pty. Ltd,** P.O. Box 19, Mayfield 2304. **Te:** 68311. **L.P:** Gen. Mgr: O. J. Story. **N:** Half-hourly. **Ann:** "First in Newcastle". **V.** by QSL-card.
16) **Riverina B.Casters (Holdings) Pty. Ltd,** 16 Fitzmaurice St, Wagga Wagga 2650. **Te:** 2124. **L.P:** Ag. Mgr: K. A. Buntain. Dir. Tec: R. Abraham. **N:** On the h and at 20.30, 21.30, 22.30, 02.30. **Ann:** "R. Riverina". **V.** by letter.
17) **Broadc. St. 2CH,** 47 York St, Sydney 2000 (owned by N.S.W. Council of Churches operated by Amalgamated Wireless (Australia Ltd). **Te:** 293322. **L.P:** St. Mgr: H. R. Huntley. Dir. Tec: W. Lowder. **D.Prgr: N:** 20.00, 20.30, 21.00, 21.30, 01.00, 02.30, 04.00. **Italian:** Mon, Tues, Wed 08.30-11.30; **Greek:** Thurs, Fri 09.00-11.30. **V.** by QSL-card. Rp.
18) **Northern B.Casters Pty. Ltd,** P.O. Box 3, Inverell 2360. **Te:** 1102. **L.P:** Gen. Mgr: A. Ridley. St. Mgr: S. Ward. Dir. Tec: B. H. Mason. **N:** 21.30, 02.00, 09.00. **Ann:** "2NZ, Northern New South Wales". **V.** by letter. Rp.
19) **Grafton Broadc. Co. Ltd,** P.O. Box 276, Grafton 2460. **Te:** 964. **L.P:** Mgr: J. Stewart. Dir. Tec: W. Rowe. **N:** On the h. **V.** by letter. Recordings accepted. Rp.
20) **Western B.Casters Pty. Ltd,** P.O. Box 44, Dubbo 2830. **Te:** 3214. **L.P:** St. Mgr: R. Ferguson. Dir. Tec: M. H. Weiland. **N:** Every h. **Ann:** "The st. with the exciting sound". **V.** by QSL-card.
21) **Broadc. St. 2SM Pty. Ltd,** GPO Box 4092, Sydney 2000. **Te:** 29.5381. **L.P:** Gen. Mgr: W. H. Stephenson. Dir. Tec: K. O. Donohue. **V.** by QSL-card.
22) **Tamworth R. Development Co. Pty. Ltd,** P.O. Box 497, Tamworth 2340. **Te:** 59274. **L.P:** Mgr: K. Knapp. Dir. Tec: O. E. Bartle. **Ann:** "This is 2TM, Northern New South Wales". **V.** by letter. Rp. Recordings accepted.
23) **Young B.Casters Pty. Ltd,** P.O. Box 31, Young 2594. **Te:** 27. **L.P:** Mgr: J. L. Finlayson. Dir. Tec: E. Eastley. **N:** Summaries (hourly) and 21.30, 02.30, 08.30. **Ann:** "2LF, the friendly st". **V.** by QSL-card. Recordings accepted. Rp. for return of tapes only.
24) **Hunter B.Casters Pty. Ltd,** P.O. Box 680, Newcastle 2300. **Te:** 21573. **L.P:** Gen. Mgr: K. C. Robinson. Dir. Tec: A. S. Mather. **N:** Hourly. **V.** by QSL-card. Rp.
25) **Lithgow B.Casters Pty. Ltd,** P.O. Box 21, Lithgow 2790. **Te:** 3321. **L.P:** Mgr: J. Ringwood. Dir. Tec: K. Shim. **N:** Every h.
26) **Goulbourn Broadc. Co. Pty. Ltd,** P.O. Box 115, Goulbourn 2580. **Te:** 21.3377. **L.P:** Mgr: J. B. Powell. Dir. Tec: G. Sangster. **N:** Every h on the h. **Ann:** "2GN, Your Southern Tablelands St". **V.** by letter. Rp.
27) **Parkes Broadc. Co. Pty. Ltd,** P.O. Box 295, Parkes 2870. **Te:** 621122. **L.P:** Mgr: N. T. Spicer. Dir. Tec: G. F. Carter. **N:** Half hourly 20.00-23.00, hourly 00.00-close, also at 21.30, 08.30. **Ann:** "Voice of the Golden West". **V.** by letter. Rp.

28) **R.2KO Newcastle Pty. Ltd,** P.O. Box 300, Newcastle 2300. **Te:** 23836. **L.P:** Mgr: C. J. Derwin. Dir. Tec: K. N. Greenhalgh. **D.Prgr: N:** On the h 23.00-14.00; on the half h 19.00-23.00. **V.** by QSL-card.

29) **Woollongong B.Casters Pty. Ltd,** Box 1234, Woollongong 2500. **Te:** 24203. **L.P:** Mgr: W. Gibson. Dir. Tec: A. J. Yeldon. **D.Prgr: N:** On the h. **Italian:** Sun 09.00-09.45. **Spanish:** Sun 08.30-09.00. **V.** by QSL-card or letter. Recordings not wanted.

30) **Tweed Radio Broadc. Co. Pty. Ltd,** P.O. Box 53, Murwillumbah 2484. **Te:** 888. **L.P:** Mgr: C. Woodland. Dir. Tec: N. D. Carpenter. **N:** Every h on the h. **Ann:** "2MW Murwillumbah, the tweed and Gold Coast st". **V.** by QSL-card. Rp.

31) **Mudge Broadc. Co. Pty. Ltd,** P.O. Box 17, Mudgee 2850. **Te:** 21-777. **L.P:** Mgr: R. Camplin. Dir. Tec: J. Sullivan. **N:** Every h on the h 20.00-12.00; also 20.30, 21.30, 22.30, 08.30. **Ann:** "R. Wonderful". **V.** by QSL-card.

32) **Hunter B.Casters Pty. Ltd,** 100 Bridge St, Muswellbrook. **Te:** 565. **L.P:** Mgr: S. O'Shea. Dir. Tec: A. Mather. **N:** On the h. **Ann:** "Voice of the Upper Hunter". **V.** by QSL-card. Rp.

33) **R. 2BE Pty. Ltd,** P.O. Box 77, Bega 2550. **L.P:** Mgr: Dir: J. A. Kerr. **V.** by letter. Rp.

34) **Amalgamated Wireless (A'asia) Ltd,** Dean St, Albury 2640. **Te:** 213288. **L.P:** Mgr: E. J. Pattison. Dir. Tec: E. J. W. James. **Ann:** "2AY, your two state st, serving Southern New South Wales and North Eastern Victoria". **V.** by letter. Rp. Recordings accepted.

35) **Bathurst B.Casters Pty. Ltd,** 109 George St, Bathurst 2795. **Te:** 31-3288. **N:** 21.30, 02.00, 08.00. **V.** by QSL-card.

36) **Haig-Muir Broadc. Pty. Ltd,** P.O. Box 321, Deniliquin 2710. **Te:** 1131. **L.P:** Mgr: P. N. Carley. Dir. Tec: E. Scoones. **N:** Every half h 20.30-22.30, 02.30, 03.00, 03.30, 08.30. **Ann:** "2QN Deniliquin". **V.** by QSL-card.

37) **Moree Broadc. and Development Co. Ltd,** P.O. Box 131, Moree 2400. **Te:** 101. **L.P:** Mgr: S. T. O'Shea. Dir. Tec: R. Lasker. **N:** Half-hourly 19.00-22.30, hourly 23.00-14.00. **Ann:** "Radio 2VM". **V.** by letter.

38) **Manning Valley B.Casters Pty. Ltd,** P.O. Box 275, Taree 2430. **Te:** 1100. **L.P:** Mgr: H. McCrindle. **N:** Every half h 19.30-22.30; every h 23.00-13.00. **Ann:** "Voice of the Mid North Coast". **V.** by QSL-card. Rp.

39) **Associated Broadc. Sce's Ltd,** P.O. Box 84, Warragul 3820. **Te:** 21431. **L.P:** Mgr: C. McL. Cameron. Dir. Tec: A. K. McLennan. **D.Prgr:** 19.00-14.00 (Sat/Sun 13.00). **V.** by QSL-card. Recordings accepted.

40) **Nilsens Broadc. Sce. Pty. Ltd,** 45 Bourke St, Melbourne 3000. **Te:** 63.3511. **L.P:** Gen. Mgr: L. Bennett. Dir. Tec: B. Virgona. **N:** on the h. **V.** by QSL-card. Recordings accepted.

41) **Amalgamated Wireless (A'asia) Ltd,** P.O. Box 75, Bendigo 3550. **Te:** 30661. **L.P:** Mgr: A. P. Scown. Dir. Tec: W. S. Moore. **N:** on the h. **Ann:** "3BO, No. 1 in Ce. Victoria". **V.** by letter. Rp.

42) **Victorian Broadc Network Ltd,** 37 Gray St, Hamilton 3300. **Te:** 316. **L.P:** Mgr: L. Smith. Dir. Tec: E. Cunningham. **N:** 21.30, 02.30, 08.30, 12.00. **Ann:** "R. Western or "First for Sport". **V.** by letter.

43) **The Herald-Sun St's,** 61 Flinders Lane, Melbourne 3000. **Te:** 63-5451. **L.P:** Gen. Mgr: R. C. Crawford. Dir. Tec: E. M. Hooper. **N:** 20.00, 21.00, 21.45, 02.00, 06.00, 13.00. **V.** by QSL-card or letter. (3LK Lubeck relay.)

44) **Colac B.Casting Co. Pty. Ltd,** 241 Murray St, Colac 3250. **Te:** 9061. **L.P:** Mgr: V. Haycroft. Dir. Tec: C. A. Cullinan. **Ann:** "Your Western District St". **V.** by letter. Rp. required for mail outside Australia. Recordings not wanted.

45) **3KZ B.Casting Co. Pty. Ltd,** 64 Elizabeth St, Melbourne 3000. **Te:** 636311. **L.P:** Gen. Mgr: L. J. Hyle. Dir. Tec: B. Perry. **N:** Every 30 min's. **V.** by QSL-card.

46) **Associated Broadc. Sce's Pty. Ltd,** P.O. Box 255, Warrnambool 3280. **Te:** 8088. **L.P:** Mgr: J. Walker. Dir. Tec: L. Moorehouse. **N:** 21.30, 02.30, 08.00, 13.00.

47) **V.B.N Ltd,** Stawell St, Sale 3850.

48) **Associated Broadc. Sce's Ltd,** P.O. Box 205, Shepparton 3630. **Te:** 9151. **L.P:** St. Mgr: E. Collings. Dir. Tec: K. Smith. **N:** On the h. **V.** by letter.

49) **R. Melbourne 3AW,** 374 Latrobe St, Melbourne 3001. **Te:** 329666. **L.P:** Gen. Mgr: R. Fowell. Dir. Tec: R. Kinely. **N:** 21.00, 21.30, 02.30, 08.30, 14.00. **Ann:** "Radio Melbourne, 3AW". **V.** by QSL-card.

50) **Ballarat B.Casters Pty. Ltd,** Box 360, Balarat 3350. **Te:** 2-5068. **L.P:** Man. Dir: E. J. W. Whykes. Dir. Tec: E. K. Ridgeway. **D.Prgr. N:** On the h. **V.** by QSL-card. Recordings accepted.

51) **V.B.N. Ltd,** P.O. Box 504, Swan Hill 3585. **Te:** 22768. **L.P:** Mgr: H. Lithgow. Dir. Tec: B. Walsh. **Ann:** "R.3SH, the Central Voice of the Murray Valley". **V.** by QSL-card.

52) **Geelong B.Casters Pty. Ltd,** P.O. Box 176, Geelong 3220. **Te:** 9-4131. **L.P:** Man. Dir: R. A. Cook. Gen. Mgr: J. A. Morwood. Dir. Tec: J. C. Mathews. **N:** 20.45, 21.45, 02.00, 02.30, 03.00, 03.30, 09.00, 12.00, 12.45. **V.** by QSL-card. Recordings accepted. Rp. for tapes.

53) **Efftee B.Casters Pty. Ltd,** 222 Faraday St, Carlton 3053. **Te:** 34-5191. **L.P:** Mgr: R. J. Baeck. Dir. Tec: W. Chamberlain. **N:** 20 min's to the h and 20 min's past the h. **V.** by QSL-card. Rp. Recordings accepted.

54) **V.B.N. Ltd,** P.O. Box 79, Maryborough 3465. **L.P:** St. Mgr: Ken J. Parker. Dir. Tec: W. D. Harper. **D.Prgr: N:** Half-hourly. **V.** by letter.

55) **Sunraysia B.Casters Pty. Ltd,** P.O. Box 539, Mildura 3500. **L.P:** St. Mgr: R. W. Harwood. **V.** by letter.

56) **Melbourne B.Casters Pty. Ltd,** P.O. Box 100, Richmond 3121. **Te:** 42-0201. **L.P:** Chief Executive: G. Day. Dir. Tec: T. O'Donohue. Chief Executive: M. Znideryk. **D.Prgr:** 24h. **N:** Each half h. **Ann:** "3AK, the Voice of Television City". **V.** by QSL-card.

57) **Wangaratta Broadc. Co. Pty. Ltd,** P.O. Box 167, Wangaratta 3677. **Te:** 2051. **L.P:** Mgr: D. C. de la Rue. Dir. Tec: K. T. Gleeson. **DX-Prgr:** "World at Your Fingertips" Sun 12.35. **N:** Half-hourly to 23.00, then hourly. **Ann:** "Voice of the North-East". **V.** by letter.

58) **Coastal B.Casters Pty. Ltd,** 38 Rankin St, Innisfail 4860. **Te:** 612277. **L.P:** Mgr: D. Beard.

59) **Far Northern Radio Tablelands Pty. Ltd,** P.O. Box 70, Yungaburra 4870. **Te:** 98. **L.P:** Mgr: F. Bellet. Dir: Tec: C. Marple. **D.Prgr:** 19.30 (Sun 20.30)-13.00 (Sat 14.15, Sun 12.30). **N:** 20.00, 20.45, 21.45, 00.25, 02.30, 03.30, 06.00, 09.00, 10.00. **V.** by letter.

60) **4KQ Broadc. St,** P.O. Box 398F, Brisbane 4001. **Cable:** Fourq. **L.P:** Mgr: L. W. Beioley. Dir. Tec: A. L. Price. **D.Prgr: N:** 20.45, 21.45, 00.25, 02.30, 03.30, 06.00, 09.00, 12.00, 13.09, 13.55. News headlines on the half h 14.00-19.00. **Ann:** "You are in tune with 4KQ Brisbane, the time is - - - -", **V.** by QSL-card.

61) **Amalagamated Wireless (A'Asia) Ltd,** P.O. Box 486, Townsville 4810. **Te:** 4165. **L.P:** Mgr: K. Duncan. Dir. Tec: G. S. Erickson. **Ann:** "4TO, the Townsville st". **V.** prepared card from listeners.

62) **Broadc. St, 4GR,** P.O. Box 111, Toowoomba 4350. **Te:** 2-3333. **L.P:** Mgr: R. J. Stevenson. Dir. Tec: R. H. Hildred. **Ann:** "The Modern Sound of Radio".

63) **Warwick Broadc. Co,** P.O. Box 195. Warwick 4370. **Te:** 8. **L.P:** Mgr: W. O. Kinane. Dir. Tec: R. van Poecke. **N:** 20.45, 21.45, 22.00, 02.30, 03.00, 08.30, 09.00. **Ann:** "The South Queensland st". **V.** by letter.

64) **Charleville Broadc. Co. Ltd,** P.O. Box 84, Charleville 4470. **Te:** 221. **L.P:** Mgr: W. D. Eversen. Dir. Tec: F. W. Davidson. **Ann:** "Voice of the Far South West" **V.** by QSL-card.

65) **Ayr B.Casters Pty. Ltd,** P.O. Box 1080, Townsville 4810. **Te:** 4191. **L.P:** Mgr: G. T. Schmid. Dir. Tec: J. Oost. **N:** 20.45, 21.15, 21.45, 22.27, 02.30, 02.45, 08.30, 09.00. **Ann:** "4AY, the Voice of the North, on Tall Tower Power". **V.** by letter. Rp.

66) **Rockhampton Broadc. Co. Pty. Ltd,** P.O. Box 159, Rockhampton 4700. **Te:** 2-2541. **L.P:** Mgr: E. J. Rheuben. Dir. Tec: E. C. Semfel. **N:** 21.45 (not Sun), 22.45 (Sun), 02.15 (Sat only), 02.30 (not Sat/Sun), 09.00. **Ann:** "4RO, the Voice of Capricornia". **V.** by QSL-card and letter.

67) **Amalgamated Wireless (A'asia) Ltd,** P.O. Box 1121, Cairns 4870. **L.P:** St. Mgr: C. R. Barrett.

68) **So. Queensland Broadc. Corp. Pty. Ltd,** P.O. Box 1150, Brisbane 4001. **D.Prgr:** 24 h. **N:** On the h 19.00-08.00, also at 19.30, 20.30, 21.30, 22.30 and 02.30. **Ann:** "This is Color Radio 4IP — in action 24 hrs a day — serving Ipswich and Greater Brisbane". **V.** by letter. Rp. Recordings accepted.

69) **So. Burnett Broadc. Co. Pty. Ltd.,** P.O. Box 305, Kingaroy 4610. **Te:** 202. **L.P:** Mgr: G. Parker. Dir. Tec: B. Whitnall. **N:** 20.00, 20.45, 21.45, 01.00, 02.30, 05.30, 06.00, 07.00, 07.45, 09.00, 11.00, 12.00. **Ann:** "4SB South Burnett". **V.** by QSL-card. Rp.

70) **Ce. Queensland Broadc. Corpo,** Box 20, Longreach 4730. **Te:** 224. **L.P:** St. Mgr: C. J. Lowney. Dir. Tec: G. Nixon. **N:** 20.03, 20.45, 21.45, 02.30, 03.30, 06.00, 09.00, 11.00. **V:** by letter. Recordings accepted.

71) **Commonwealth Broadc. Corp. (Q'ld) Ltd,** Wharf St, Brisbane 4000. **Te:** 311311. **L.P:** Mgr: M. E. W. Baker. Dir. Tec: N. J. Bishop. **N:** On the h. **V.** by letter.

72) **Maryborough Broadc. Co. Ltd,** P.O. Box 143, Maryborough 4650. **L.P:** St. Mgr: G. W. Robertson.
73) **Gold Coast R.Broadc. Co. Pty. Ltd,** P.O. Box 174, Southport 4215. **Te:** 95555. **L.P:** Mgr: R. J. Taylor. Dir. Tec: J. L. Thomason. **N:** 20.05, 20.45, 21.45, 00.25, 02.30, 03.30, 06.00, 09.00, 13.00, 13.55. **V.** by letter.
74) **Brisbane Broadc. Pty.** 93 Queen St, Brisbane 4000. **Te:** 31-1381. **L.P:** Dir. Tec: G. Lloyd. **N:** On the h. **Ann:** "4BK Brisbane, 4AK Darling Downs". **V.** by QSL-card. Rp. recordings accepted.
75) **Maroochy Broadc. Co. Ltd,** P.O. Box 279, Nambour 4560. **Te:** 41-1486. **L.P:** Gen. Mgr: P. M. Maher. Dir. Tec: W. Ryan. **N:** Mon-Fri 19.55, 20.00, 20.45, 21.45, 00.25, 02.30, 03.30, 06.15, 09.00, 11.00; Sat 19.55, 20.00, 20.45, 21.45, 02.30, 09.00; Sun 23.00, 02.30, 09.00, 11.00. **V.** Reports not wanted.
76) **Bundaberg B.Casters. Pty. Ltd,** P.O. Box 105, Bundaberg 4670. **Te:** 2478. **L.P:** Mgr: N. McCormack. Dir. Tec: H. Clayton. **N:** 20.00, 20.45, 21.45, 02.30, 03.30, 09.00, 11.00. **Ann:** "4BU Bundaberg". **V.** by QSL-card.
77) **Gympie Broadc. Co. Ltd,** 98 Mary St, Gympie 4570. **L.P:** St. Mgr: A. H. Buzacott. **V.** by letter. Rp.
78) **No. Queensland Broadc. Corpo. Pty. Ltd,** P.O. Box 780, Mount Isa 4825. **Te:** 316. **L.P:** Mgr: G. Atthow. Dir. Tec: A. Smith. **D.Prgr:** **N:** 20.00, 21.45, 02.30, 03.30, 09.00, 11.00. **V.** by letter. Rp.
79) **Mackay Broadc. Sce. Pty. Ltd,** 38 Gordon St, Mackay 4740. **L.P: Mgr:** N. B. Jackson. **Ann:** "The Voice of the Barrier Reef". **V.** by QSL-card.
80) **B.Casters (Aust) Pty. Ltd,** GPO Box 906M, Brisbane 4001. **Te:** 22002. **L.P: Mgr:** G. B. Lovejoy. Dir. Tec: A. Judge. **N:** Hourly. **Ann:** "4BH Brisbane, Key st. of the Macquarie Broadc. Netw". **V.** by letter.
81) **Maranoa Broadc. Co. Ltd,** P.O. Box 22, Roma 4455. **Te:** 80585. **L.P:** Mgr: C. J. Taylor. **N:** 22.45 (not Sun), 02.30, 09.00. **Ann:** "This is your feature st, 4ZR". **V.** by QSL-card. Recordings accepted.

82) **River Murray Broadcasters Pty. Ltd,** P.O. Box 118, Berri 5343. **Te:** 80. **L.P:** Mgr: T. Dawson. Dir. Tec: H. F. Lloyd. **N:** On the h. **Ann:** "The Voice of the Murray". **V.** by QSL-card.
83) **Hume B.Casters Ltd,** P.O. Box 5, No. Adelaide 5006. **Te:** 67-1461. **Cable:** "Firstation". **L.P:** St. Mgr: A. R. Palmer. Dir. Tec: G. Barber. **N:** 19.30, 02.30, 08.15. **Ann:** "5DN Adelaide, first st. in the state; a member st. of the Macquarie Broadc. Sce". **V.** by letter.
84) **Advertiser Broadc. Network,** G.P.O. Box 392, Adelaide 5001. **Te:** 51-0425. **N:** On the h. **Ann:** "St. 5AD on 1310" (Rel. st's: 5PI Crystal Brook, 5SE Mount Gambier, 5MU Murray Bridge).
85) **5KA B.Casters Pty. Ltd,** G.P.O. Box 562E, No. Adelaide 5001. **Te:** 51-5511. **L.P:** Ag. Mgr: N. W. Bradley. Dir. Tec: B. Hall. **N:** 30 min past each h. **Ann:** "5KA City". **V.** by QSL-card. Rp.
86) **Broadc. St. 5AU,** P.O. Box 247, Port Augusta 5700. **Te:** 2941. **L.P:** St. Mgr: L. J. Bradley. Dir. Tec: B. E. Martin. **N:** On the h every h exc. Mon-Fri 20.00-23.30 when every half h. **Ann:** "5AU, the Voice of the Gulf". **V.** by QSL-card. Rp. Written reports preferred.

87) **Albany B.Casters Pty. Ltd, P.O.** Box 293, Albany 6330. **Te:** 41-2000. **Cable:** Sixva. **L.P:** St. Mgr: T. Furlong. Dir. Tec: M. Hoffman. **N:** W 22.00, 22.45, 23.45. 04.30, 11.00. **Ann:** "This is the Voice of the Great South, 6VA Albany".
88) **Consolidated Broadc. System,** Box D187, G.P.O, Perth 6001. **Te:** 21-2201. **L.P:** Mgr: E. W. Fisher. Dir. Tec: H. A. Taylor. **N:** Every 30 min. **V.** by QSL-card. (Relay st's: 6AM Northam, 6KG Kalgoorlie, 6GE Geraldton).
89) **Nicholson's Broadc. Sce,** 340 Hay St, Perth 6000. **Te:** 233044. **Cable:** Radiocentre. **L.P:** Gen. Mgr: G. C. Lewis. St. Mgr: J. Ashton. Dir. Tec: K. Prosser. **N:** Every half h. **V.** by letter. Rp. Recordings not wanted.
90) **West Australia B.Casters Pty. Ltd,** P.O. Box 1220, Perth 6001. **L.P:** Mgr: J. T. Hunn. Dir. Tec: C. H. Muhling. **N:** Usually 5 min before the h. **V.** by letter. Rp. (Relay st's: 6BY Bridgetown, 6MD Merridin, 6WB Katanning.)
91) **Suntimes B.Casters Ltd,** G.P.O. L.906, Perth 6001. **Te:** 288522. **Cable:** "Sixky". **L.P:** Mgr: J. W. Hugall. Dir. Tec: K. J. Cantelo. **D.Prgr:** 6KY (Perth) 24h; 6NA (Narrogin) 03.00-06.00. **N:** Every 30 min's. **V.** by QSL-card. Rp.

92) **No. Ea. Tasmania R. B.Casters Ltd,** P.O. Box 109, Scottsdale 7254 **L.P:** B. Scetrine. **V.** by QSL-card.
93) **Burnie Broadc. Sce. Pty. Ltd,** P.O. Box 120, Burnie 7320. **Te:** 31-2555. **L.P:** Mgr: C. W. Nunn. Dir. Tec: T. Kirkpatrick. **N:** 20.00, 21.00, 21.45, 02.30, 09.00, 10.00,

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11.00, 12.00. **Ann:** "Sound Radio, 7BU, North Western Tasmania". **V.** by QSL-card.
94) **West Coast B.Casters Pty. Ltd,** P.O. Box 315, Queenstown 7467. **L.P:** Mgr: H. Ebrall. **V:** Reports not wanted.
95) **Comm. B.Casters Pty. Ltd,** G.P.O. Box 542F, Hobart 7001. **Te:** 80321. **L.P:** Mgr: A. B. Brown. Dir. Tec: R. M. McCarthy. **N:** Every h on the h and at 21.30, 02.30, 08.30. **Ann:** "R. Hobart 7HO". **V.** by QSL-card. Recordings accepted.
96) **No. Tasmania B.Casters Pty. Ltd,** P.O. Box 262, Devonport 7310. **Te:** 22412. **L.P:** Mgr: M. Evans. Dir. Tec: B. Eyre. **N:** 21.45, 22.07, 02.30, 08.45, 12.00. **V.** by QSL-card. Rp.
97) **7EX Pty Ltd,** P.O. Box 812, Launceston 7250. **Te:** 42492. **L.P:** Mgr: A. E. McGelland. Dir. Tec: R. J. Abraham. **N:** Every h. **Ann:** "The Top St". **V.** Prepared card required.
98) **Metropolitan B.Casters Pty. Ltd,** G.P.O. Box 572F, Hobart 7001. **Te:** 33157. **LP:** Mgr: J. V. Howell. Dir. Tec: F. B. Klein. **Ann:** "7HT the Heart of Hobart". **V.** by letter.
99) **Findlay & Wills B.Casters Pty. Ltd,** P.O. Box 635G, Launceston 7250. **Te:** 2-1551. **L.P:** Mgr: R. E. Ward. Dir. Tec: R. B. McLean. **N:** On the h. **Ann:** "7LA The Number One Station". **V.** by QSL-card. Rp.

100) **Darwin B.Casters Pty. Ltd,** P.O. Box 506, Darwin 5794. **L.P:** St. Mgr: D. H. Charlton. Sen. Technician: J. Lane. **V.** by letter. Rp.

COOK ISLANDS (N.Z. Territory)

L.T: GMT−10½h — **Pr.L:** English, Maori.

RADIO COOK ISLANDS (Gov.)
ADDR: Rarotonga. **Te:** 100.
STATIONS (G.C: 159.48W/21.11S):

Call	kHz	m	kW	Call	kHz	m	kW
ZK1ZC	600	500.0	10	ZK5	5045	59.46	1
ZK3	9695	30.94	1				

HOME SCE. in English, Maori: Mon-Sat 16.30-18.30 on 600/5045kHz; Mon-Fri 21.00-23.30 on 600/9695kHz; Tues-Sat 04.30-08.40 on 600/5045kHz; Sun 04.30-07.30 on 600/5045kHz, 17.30-19.00 and 22.30-00.30 on 600/9695 kHz.
N: English: 22.45, 04.32, 07.30 (rel. R. New Zealand). 07.40 (Tues), 08.15 (Thurs), 07.40 (Sat). **Maori:** 22.55, 05.30 — **ANN:** "This is R. Cook Islands" — **INT-SIG:** Cook Islands Drum Beats — **V.** by QSL-card. Rp.

FIJI (British)

L.T: GMT+12h — **Pr.L:** English, Fijian, Hindustani.

FIJI BROADCASTING COMMISSION (Independent Statutory Body, 50% comm, 50% cultural)
ADDR: P.O. Box 334, Suva. **Te:** 22621. **Cable:** Broadcom — **L.P:** Chmn. D. M. N. McFarlane, LLB, CBE. Mgr: G. M. Cullen. Dep. Mgr: G. H. King. Prgr. Organiser: P. B. Sloan. Adv. Mgr: Sang Yee Joy. Dir. Tec: P. Lloyd Littin.
STATIONS (G.C: 178.40E/18.10S):
*) Sat 11.00; †) Sat only.

Location	kHz	kW	Languages	h. of tr.
Suva	560	5	English	18.00-10.30*
Suva	710	3	Vernaculars	18.00-10.30*
Suva	840	1	Suppl. Prgr.	20.00-24.00†
Lautoka	890	2.5	Vernaculars	18.00-10.30*
Nadroga	930	2	Vernaculars and English	18.00-10.30
Lautoka	1320	2	English	18.00-10.30*
Suva	3230	10	English	18.00-21.15 03.45-10.30*
—	3284	10	Vernaculars	18.00-21.30 03.30-10.30
—	4756	0.5	Suppl. Prgr.	20.00-24.00†
—	5955	10	Vernaculars	21.30-03.30
—	6005	10	English	21.15-03.45

HOME SCE. in English, Fijian and Hindustani: 18.00-10.30 (Sat 11.00).
English: N: 18.15, 19.00 (BBC), 19.45, 20.00 (BBC), 01.00 (R.NZ), 01.30 (R. Australia), 07.00 (BBC), 09.00 (ABC) — **Local N. in Fijian:** W 18.15, 19.45, 01.15, 07.10 — **Wrp:** 19.00, 20.00, 01.30, 07.00 — **ANN:** "This is R. Fiji". Fijian: "Oqo na R. Fiji". Hindustani: "Yeh R. Fiji Hai" — **INT-SIG:** Beat on Fijian Lali (Log Drum) — **V.** by QSL-card — **FI:** By license payments and adv. — **ALF:** £1/5/0 — **EC:** a/c 50 (yes).

GILBERT & ELLICE ISLANDS (British)

L.T: GMT+12h — **Pr.L:** English, Gilbertese, Ellice.
GILBERT AND ELLICE BROADCASTING SERVICE
ADDR: Broadc. Office, Betio, Tarawa. **Cable:** Broadcasts — **L.P:** Broadc. Inf. Officer: A. G. M. Slatter. Broadc. Eng: A. F. E. Robins. Asst. Broadc. Officer: B. Arieta.
STATIONS: VSZ-1 844kHz 355.5m 0.05kW.
VSZ-2 4912.5kHz 61.07m 2kW.
HOME SCE. in Gilbertese, Ellice and English: 18.45-20.00 (Mon-Sat) in English, Vernaculars; 07.00 (Sun 06.30)-07.45 in English; 07.45-08.15 (D) in Ellice; 08.30-09.15 (D) in Gilbertese.
ANN: E: "This is R. Tarawa". Gilbertese: "Kam na bane ni mauri ara taan kakauongo nte tairiki aei, aio Bana Tarawa". Ellice: "Talofa, katoa koutou ite po tenei, mea nei ko te sikungaleo a Tarawa" — **INT-SIG:** Four notes gong — **V.** by form letter.

GUAM (U.S. Territory)

L.T: GMT+10h — **Pr.L:** English, Chamorro, Philippine dialects — **EC:** a/c 60.

RADIO GUAM (Pr. Comm.)
ADDR: P.O. Box 368, Agana, Guam 96910. **Cable:** Kuam. **Te:** 777-9861 — **L.P:** Pres: H. Scott Kilgore. Executive Vice-Pres: Wm. B. Nielsen. Vice-Pres. and Gen. Mgr: James A. Klein.
HOME SCE. in English: 20.00 (Sun 21.00)-14.00 (Sat 15.00) — **N:** Every h on the h — **ANN:** "Kuam Agana, Guam" — **INT-SIG:** Voice and Jingle Form (Orchestra and Voices) — **V.** by letter and QSL-card.

HAWAII (U.S. State)

L.T: GMT−10h — **Pr.L:** English, Japanese, Filipino.
PRIVATE COMMERCIAL STATIONS

	Call	kHz	kW		Call	kHz	kW
1)	KMVI	550	1	12)	KTRG	990	5
2)	KGMB	590	5	13)	KHVH	1040	5
3)	KORL	650	10	14)	KIPA	1110	1
4)	KKUA	690	10	15)	KLEI	1130	1
5)	KUAI	720	5	16)	KOHO	1170	1
6)	KGU	760	10	17)	KZOO	1210	1
7)	KONA	790	1	18)	KNDI	1270	5
8)	KIKI	830	0.25	19)	KNUI	1310	1
9)	KIMO	850	1	20)	KPOI	1380	5
10)	KAIM	870	5	21)	KCCN	1420	5
11)	KAHU	940	10	22)	KTOH	1490	1/0.25
12)	KPAU	970	1	23)	KUMU	1500	1

1) **Maui Publishing Co,** P.O. Box 550, Wailuku, Maui 96793. **L.P:** Gen. Mgr: R. E. Mawson. **D.Prgr:** 14.55-09.00.
2) **Pacific Broadc. Co,** Box 581, Honolulu 96809. **L.P:** Gen. Mgr: G. Erger. **D.Prgr:** 24h. (KPAU Hilo 15.00-10.00).
3) **R. Hawaii Inc,** Box 8250, Honolulu 96815. **L.P:** Vice Pres. and Gen. Mgr: M. L. Hibdon. Dir. Tec: A. Roycroft. **D.Prgr. in English:** 24h. Good Music, News. **V.** by letter or QSL-card. Recording accepted Pp.
4) **Hercules Broadc. Co,** 830 Ala Moana Blvd, Honolulu 96813. **L.P:** Gen. Mgr: H. G. Fernhead. **D.Prgr:** 24h.
5) **American Islands Broadc. Corpo,** Box 720, Eleele, Kauai 96705. **L.P:** Gen. Mgr: R. L. Gay Jr. **D.Prgr:** 15.00-10.00.
6) **R. St. KGU,** 1290 Ala Moana, Honolulu 96813. **Te:** (808) 536-3626. **L.P:** Vice Pres. and Gen. Mgr: W. J. Hawthorne. Dir. Tec: T. Shigetami. **D.Prgr:** 24h. Good Music, Rock'n roll, News. **V.** by QSL-card.
7) **Maunaloa Broadc. Inc,** Box 816, Kealakekau, Kona 96754. **L.P:** Gen. Mgr: V. L. Beach. **D.Prgr:** 15.30-08.15.
8) **KIKI Ltd,** 331-D Kamani St, Honolulu 96813. **L.P:** St. Mgr: R. Hagadone. **D.Prgr:** 24h.
9) **Garrabrant Inc,** Box 1497, Hilo 96720. **L.P:** Pres. and Gen. Mgr: H. V. Garrabrant. **D.Prgr:** 16.00-08.00.
10) **Christian Broadc. Assoc,** P.O. Box 375, Honolulu 96809. **L.P:** Gen. Mgr: E. B. Gustavson. Dir. Tec: R. Lyon. **D.Prgr:** 16.00-10.05. **V.** by letter. Rp.
11) **Royal Hawaiian Radio Inc,** P.O. Box 1007, Waipahu Oahu 96797. **L.P:** St. Mgr: H. E. Chu. Tec. Dir: R. Pearson. **D.Prgr:** 24h. **V.** by QSL-card and letter. Recordings accepted. Rp.
12) **Hawaiian Paradise Park Corp,** 2227-A Kalakaua Ave, Honolulu 96815. **L.P:** Gen. Mgr: J. H. Russell. **D.Prgr:** 24h.

13) **Western Telestations Inc**, 1290 Ala Moana, Honolulu 96814. **L.P:** Pres. and Gen. Mgr: L. S. Berger. Dir. Tec: D. Hunter. **D.Prgr. in English:** 24h. **N:** Every half h. **V.** by letter.
14) **Big Island Broadc. Co,** P.O. Box 1602, Hilo 96720. **L.P:** Gen. Mgr: H. Gordon. Tec. Dir: R. W. Jaderstrom. **D.Prgr:** 15.00-10.30. **V.** by letter. Recordings accepted.
15) **Egal Radio,** 502 Kailua Road, Kailua 96734. **L.P:** Gen. Mgr: J. Irvin. **D.Prgr:** 15.30-10.00.
16) **Cosmopolitan Broadc. Co,** 1140-A 12th Ave, Honolulu 96816. **L.P:** Gen. Mgr: H. Sato. **D.Prgr:** 14.00-10.30.
17) **Polynesian Broadc. Inc,** 250 Ward Ave, Suite 209, Honolulu 96814. **L.P:** Gen. Mgr: T. Kobayashi. **D.Prgr:** 15.00-10.00.
18) **R. St. KNDI,** P.O. Box 1516, Honolulu 96806. **L.P:** Gen. Mgr: J. T. Ownby. Dir. Tec: A. Rycroft. **D.Prgr:** 24h in E, Jap, Korean, Chinese, Filipino, German. **V.** by letter.
19) **KNUI Broadc. Co,** Box 1310, Makawao, Maui 96768. **L.P:** St. Mgr: R. D. Waught. **D.Prgr:** 15.00-08.00.
20) **KPOI Broadc. Co,** 1701 Ala Wai Blvd, Honolulu 96815. **L.P:** Gen. Mgr: T. Moffatt. **D.Prgr:** 24h.
21) **Diamond Head Broadc. System Inc,** 150-B Puuhale Rd, Honolulu 96819. **L.P:** Gen. Mgr: L. Buskett. **D.Prgr:** 24h.
22) **Kauai Broadc. Co,** Box 1748, Lihue, Kauai 96764. **L.P:** St. Mgr: R. L. Hagadone. **D.Prgr:** 15.00-10.00.
23) **John Hutton Corp,** 1148-12th Ave, Honolulu 96816. **L.P:** Gen. Mgr: J. Weiser. **D.Prgr:** 24h.

LORD HOWE ISLAND (Australian Territory)

L.T: GMT+11h — **Pr. L:** English.

LORD HOWE ISLAND BROADC. SCE. (Gov.)
ADDR: Dept. of Civil Aviation, Lord Howe Island, NSW 2898, Australia.
STATION: 640kHz 468.8m 0.05kW — This Sce. is for the information of the residents (280 at present) as to the arrival times of aircraft and shipping. Broadcasts are made one hour before the scheduled arrival of aircraft.
V: Reports not wanted.

NAURU (Republic of)

L.T: GMT+11½h — **Pr.L:** English. Nauruan.

NAURU BROADCASTING SERVICE (Gov.)
ADDR: Nauru Broadc. Service, Republic of Nauru, Central Pacific. **Te:** 966. **Cable:** Broadserv, Nauru.
STATION: 1320kHz 227.3m 0.13kW.
HOME SCE. in English and Nauruan: W 19.00-22.00, 01.00-02.00, 07.30-10.15 (Sat 11.30): Sun 04.00-08.00.
N. in English: Mon and Sat 08.30, 09.00. **N. in Nauruan:** Tues-Fri 19.40, 08.30, 09.30.
Relay R. Australia: W 00.30-01.00, 02.00-07.30; Sun 01.00-04.00.
V. reports not wanted.

NEW HEBRIDES (British/French)

L.T: GMT+11h — **Pr.L:** English, French, Pidgin.

RADIO VILA (Gov.)
ADDR: New Hebrides Broadcasting Service, Vila, New Hebrides, Western Pacific.
L.P: Dir: British and French Information Officers.
STATIONS (G.C: 168.33E/17.44S):
YJB3 3277kHz 91.55m 1kW — YJB4 3905kHz 76.83m 0.5kW — YJB7 7260kHz 41.32m 0.5kW.
HOME SCE: Mon-Sat 00.30-01.15 on 7260kHz; Mon-Fri 06.15-07.30 on 3905kHz. Special broadcasts may be outside above hours (between 22.00-05.00 on 7260kHz and between 05.00-08.00 on 3905kHz).
Refer all communications to Radio Vila, Vila, New Hebrides, Western Pacific.

NEW CALEDONIA (French)

L.T: GMT+11h — **Pr.L:** French — **E.C:** a/c 50 (yes).

RADIO NOUMEA (Gov.—ORTF)
ADDR: B.P. 327, Noumea. **Cable:** O.R.T.F. **Te:** 4327.
L.P: Dir. Le Leizour. Dir. Tec: G. Guesdon. Dir. N: H. de Camaret.
STATIONS (G.C: 166.26E/25.16S): 625kHz 480.9m 20kW 3355kHz 89.45m 20kW — 7170kHz 41.84m 20kW.
HOME SCE. in French: On 1420/3355kHz: W 19.00-21.00, 23.30-02.00, 06.00-11.00; Sun 21.00-02.00, 06.00-11.00. On 7170kHz: 23.30-02.00 (Sun 21.00-02.00).
N. in French: 19.30, 20.00, 20.55, 00.00, 01.00, 07.00, 07.45, 10.55 — **Wrp:** 19.30, 19.55, 00.00, 01.00, 08.00, 09.00, 10.55 — **ANN:** "Ici Noumeá, Office de Radiodiff. Télévision Française" — **INT-SIG:** Call of the cagou bird — **V.** by QSL-card. Rp. Recordings accepted.
AD: 19.00-20.00, 00.00-01.00, 01.15-01.20, 07.30-07.45.

NEW ZEALAND

L.T: GMT+12h — **Pr.L:** English, Maori — **EC:** a/c 50 (yes).

NEW ZEALAND BROADCASTING CORPORATION
(Statutory Public Body)
ADDR: P.O. Box 98. Wellington. **Te:** 48.200. **Cable:** Broadserv — **L.P:** Dir. Gen: G. H. Stringer. Dep. Dir. Gen: L. R. Sceats. Exec. Dir's: C. Marshall, M. A. Rickard, K. M. Hay. Reg. Dir's: J. M. Norman, J. W. Proudfoot, N. R. Palmer.

	Call	kHz	m	kW	h. of tr.
Wellington	2YA	570	526.3	100	24h
Napier	2YZ	630	476.2	20	18.00-11.20
Alexandra	4YW	640	468.8	2	24h
Wellington	2YC	660	454.5	60	05.00-11.00
Christchurch	3YA	690	434.8	20	24h
Invercargill	4YZ	720	416.7	20	18.00-11.20
Greymouth	3ZA	750	400.0	2	18.00-02.00
Auckland	1YA	760	394.7	20	24h
Dunedin	4YA	780	384.6	20	24h
Wellington	2YB	800	375.0	20	see below
Invercargill	4ZA	820	365.9	10	18.00-12.00
Whangarei	1YX	830	361.4	2	18.00-11.20
Masterton	2ZD	840	357.1	2	18.00-10.30
Rotorua	1YZ	860	348.8	10	18.00-11.20
Auckland	1YC	880	340.9	10	05.00-11.00
Dunedin	4YC	900	333.3	10	05.00-11.00
Greymouth	3YZ	920	326.1	10	18.00-11.20
Palmerston No.	2ZA	940	319.1	2	18.00-12.00
Christchurch	3YZ	960	312.5	10	17.00-11.00
Whangarei	1ZN	970	309.3	2	05.00-11.00
Wellington	2ZB	980	306.1	20	18.00-12.00
Tauranga	1ZD	1000	300.0	10	17.00-10.30
Dunedin	4ZB	1040	288.5	10	18.00-12.00
Gisbourne	2ZG	1060	283.0	2	18.00-11.00
Auckland	1ZB	1070	280.4	10	17.00-12.00
Christchurch	3ZB	1100	272.7	10	18.00-12.00
Wellington	2ZM	1130	265.5	2	18.00-12.00
Hamilton	1YW	1140	263.2	2	18.00-11.20
Timaru	3ZC	1160	258.6	2	18.00-11.00
Gisbourne	2YW	1180	254.2	2	18.00-11.20
Wanganui	2ZW	1200	250.0	2	18.00-11.00
Kaikohe	1ZE	1220	245.9	2	17.00-11.00
Auckland	1ZM	1250	240.0	2	18.00-12.00
Napier	2ZC	1280	234.4	2	18.00-12.00
Hamilton	1ZH	1310	229.0	2	17.00-12.00
Nelson	2ZN	1340	223.9	2	18.00-11.00
Rotorua	1ZC	1350	222.2	2	17.00-10.30
New Plymouth	2ZP	1370	219.0	2	18.00-11.00
Turangi	1ZT	1390	215.8	0.1	17.00-11.20
Christchurch	3ZM	1400	214.3	2	18.00-12.00
Tokoroa	1ZO	1420	211.3	2	17.00-11.20
Dunedin	4XD	1430	209.8	0.25	
Kaitaia	1ZK	1440	208.3	2	17.00-11.00
Westport	3YW	1460	205.5	2	18.00-11.20
Taupo	1ZA	1500	200.0	2	17.00-11.20
Taumarumui	1ZU	1520	197.4	1	17.00-11.20
Blenheim	2ZH	1540	194.8	1	18.00-23.00
Hawera	2ZH	1560	192.3	1	18.00-11.00

St. 2YB is on the air only when 2YA is broadc. direct from the House of Representatives.
NEWS: On 570/630/640/690/720/760/780/830/860/920/1140/1180/1460kHz: W: 16.00*, 18.00*, 18.33, 19.00, 19.30, 20.00*, 20.30, 21.00, 22.31 (not Sat), 00.33, 01.15, 03.31 (not Sat), 05.00 (not Sat), 06.30*, 07.00, 09.03, 11.00*, 11.14, 14.00 (Sat only). Sun: 18.00*, 19.00, 19.30, 20.00*, 20.30, 21.00, 21.33, 00.33, 01.15, 06.30*, 07.00, 09.03, 11.00*, 11.14 — *) BBC.
News in Maori: Sun 5.50 — **Dominion Weather:** D 17.30, 18.30, 19.14, 00.30, 04.00, 09.00, 11.17 — **Rlg:** W 22.00, Sun 23.00, 07.00 — **L.L:** (French to Schools): Mon 02.45 (Feb-Aug).
NEWS: On 820/840/940/970/980/1000/1040/1060/1070/1100/1160/1200/1280/1310/1340/1350/1370kHz: W:18.00*, 18.30, 19.00, 19.30, 20.00, 20.30, 21.00, 22.00, 23.00, 00.00, 00.30*, 01.00, 01.30*, 02.00*, 03.00, 04.00*, 05.00*, 06.00, 07.00, 08.00, 09.00, 11.00. Sun: 19.00, 20.00, 21.00, 22.00, 23.00, 00.00, 01.00, 03.00, 06.00, 07.00, 08.00, 09.00, 11.00.

FOREIGN SCE: R. New Zealand
ADDR: P.O. Box 98, Wellington. **Cable:** Broadserv. **Te:** 48-200 — **L.P:** Distr. Mgr: N. J. Wade. Reg. Engineer: A. S. Chisholm. Prgr. Officer: H. W. Taylor-Smith.
STATIONS (G.C: 174.50E/41.05S): 7.5kW.

Call	kHz	m	Call	kHz	m	Call	kHz	m
ZL7	6080	49.34	ZL6	11705	25.63	ZL21	15110	19.85
ZL18	9520	31.51	ZL3	11780	25.47	ZL5	17770	16.88
ZL2	9540	31.45	ZL19	11830	25.36	ZL4	15280	19.63

Two freq's are used simultaneously, and as the prgr. sched. is intended primarily for Australia and the Pacific Islands, the present aerials are beamed in those two directions; HS=Home Sce. Prgr's.
To Pacific Islands (Beam 30°):
17.00-18.15 on 6080/9755kHz
18.30-19.45 on 11780kHz
20.00-24.00 on 15110kHz
00.15-05.45 on 15280kHz
} Programmes from the NZ Home Service
06.00-08.45 on 6080/9540kHz*.
*) Sun 9540kHz closes at 08.00.
To Australia (Beam 285°)
20.00-05.45 on 17770kHz (NZ Home Sce. prgr's).
09.00-11.45 on 9520/11830kHz.
"Calling Antarctica" (a prgr. of N, sporting review, directed to N.Z. scientific personnel in the Ross Dependency): Sun 08.15-08.45 on 9520kHz.
"Calling Samoa" (in Samoan): Tues 07.20-07.50 — **"Calling the Cook Islands"** (in Rarotongan): Wed 08.10-08.30 (repeat) — **"Calling Niue Island"** (in Niuean): Fri 07.45.
New Zealand News: 22.45, 23.30, 00.30, 03.00, 08.00, 10.00.
In the News: 07.00 (Mon-Fri). **Point of View:** 07.30, 09.10 (Sun) — **Rlg:** W (in N.Z.) 22.00, Sun (in N.Z.) 23.30.
DX-Prgr: (Arthur Cushen's DX World) 1st Wed in month: 06.45, 10.30, repeated following Sat 23.45. Also in all night Nat. prgr. 3rd Fri at 14.15 — **"Mailbox":** Fri 07.00, 09.45 — **Maori Music:** 06.30, 09.44 (Tues), 06.30, 10.45 (Wed) — **Checkpoint:** 06.30, 09.10 (Fri), 06.10, 10.15 (Sun) — **Prgr. Previews:** 23.40, 06.09, 08.40, 08.55, 11.40.
ANN: "This is R. New Zealand" — **INT-SIG:** Call of the N.Z. Bellbird (at 5 second intervals) — **V.** by QSL-card (sea mail). Re. to Distr. Mgr, P.O. Box 2396, Wellington — **PUB:** "The N.Z. Listener" (Home Sce) 39sh (NZ) yearly. Prgr. sched. (free to overseas listeners). **FI:** By licence payments and adv. — **AD:** St's other than YA, YC, YZ and YW broadc. adv. on W — **ALF:** NZ$ 3.00.

NIUE ISLAND (N.Z. Territory)

L.T: GMT−11h — **Pr.L:** Niuean, English.

NIUE BROADCASTING SERVICE (Gov.)
ADDR: Community Development Office, P.O. Box 43, Niue Island. **Cable:** Commr — **L.P:** Community Development Officer: A. Kaulima.
STATION: Alofi ZK2ZN 550kHz 545.5m 0.2kW.
HOME SCE: 23.00-00.30 (Mon-Fri), 06.00-08.50 (Mon-Sat). **Listeners' Request:** Mon-Sat 06.30.
ANN: E: "This is Radio Niue, st. ZK2ZN, broadc. on 550kHz". Niuean: "Ko e Leo Taogo Ha Niue a nei". **V.** by letter. Recordings accepted. Rp. preferred.

NORFOLK ISLAND (Australian Territory)

L.T: GMT+11½h — **Pr.L:** English.

NORFOLK ISLAND BROADCASTING SERVICE (Gov.)
Owned by the Norfolk Island Adm. and under the technical direction of the Dept. of Civil Aviation.
ADDR: Norfolk Island Administration, Kingston — **L.P:** Broadc. Officer: Mrs. H. Waters. Official Secr: J. G. Cowap.
STATION (G.C: 167.56E/29.03S): VL2NI 1570kHz 0.05kW.
HOME SCE. in English: Mon, Tues, Thurs, Fri 20.30-23.30 (world and local news, rlg. sce, music, talks, interviews); Wed 20.30-00.30 (world and local news, rlg. sce, musical requests); Mon 08.30-10.00 (music); Sat 01.30-02.00 and Sun 00.00-00.30 (music and aircraft movement) — **ANN:** "Norfolk Island Broadc. Sce, St. VL2NI" — **V.** by letter. Rp.

PAPUA and NEW GUINEA

(Australian Territory of Papua and Trust Territory of New Guinea) — **L.T:** GMT+10h — **Pr.L:** English, Melanesian, Pidgin, Police Motu, Vernaculars.

DEPARTMENT OF INFORMATION AND EXTENSION SERVICES
Konedobu (Head Office of all st's). **Cable:** "Adcast". **Te:** 4681 — **L.P:** Dir: L. R. Newby. Dir. Tec: W. F. Carter.

RADIO RABAUL (Gov.)
ADDR: Adm. Broadc. St, P.O. Box 71, Rabaul. **Te:** 2700. **Cable:** Adcast — **L.P:** St. Mgr: I. I. Waters. Sen. Tec. Dirs: P. Cook and M. O'Sullivan.
STATION (G.C: 152.11E/04.12S): VL9BR 3385kHz 88.63m 10kW.
HOME SCE: 20.00-22.00, 06.00-13.00. **N: English:** 08.00, 10.00. **Tolai:** 08.10, 10.10, 10.35. **Pidgin:** 09.05, 10.05, 11.35, 12.05. **Wrp & Shipping Inf (in Pidgin):** 08.50.
ANN: E: "This is R. Rabaul, Station VL9BR". Tolai: "Ava valavala Ongore R. Rabaul VL9BR". Pidgin: "Yupela wok lang harim R. Rabaul VL9BR, Stesin Bilong Yumi" — **V.** by letter. Recordings accepted.

RADIO WEWAK (Gov.)
ADDR: P.O. Box 65, Wewak. **Te:** 98. **Cable:** "Adcast". **L.P:** St. Mgr: I. Smeeton. Supervising Technician: J. Whittaker.
STATION (G.C: 143.40E/03.35S).
VL9CD 3335kHz 89.96m 10kW.
HOME SCE. in English & Melanesian Pidgin: 20.00-22.00 (Sun 23.00), 06.15 (Sat/Sun 03.15)-12.30. **N. in English:** 08.00 (Mon-Fri), 09.00 (Sat only), 10.00 (Mon-Fri) — **ANN:** "Adm. Broadc. St. R. Wewak" — **V.** by letter. Recordings accepted.

RADIO KEREMA (Gov.)
ADDR: Adm. Broadc. St, Kerema. **Cable:** "Adcast". **L.P:** St. Mgr: P. Pennington.
STATION: VL8BK 3245kHz 92.45m 0.25kW.
HOME SCE. in English, Vernaculars: 07.00-12.00.
N. in English: Mon-Fri 08.00, 08.35, 11.10; Sat/Sun 09.00. **N. in Vernaculars:** Mon-Fri 09.00, 09.45, 11.05; Sat 08.00, 10.35; Sun 08.00, 10.30 — **V.** by data sheet or letter.

RADIO WESTERN DISTRICT (Gov.)
ADDR: P.O. Box 23, Daru, Western District. **Te:** 62. **Cable:** "Adcast" — **L.P:** St. Mgr: J. Smeeton. Sen. Broadc. Officer: P. Sampson. Technician in Charge: B. Hyde.
STATION (G.C: 143.12E/9.07S):
VL8BD 3305kHz 90.80m 10kW.
HOME SCE. in Police Motu, Pidgin, Kiwai, Gogodala, Yungom and Simple English: Sun-Fri 06.00-12.00; Sat 06.00-12.30. **N: Mon-Fri** 08.15, 09.15, 10.00, 10.30, 11.15; Sat 09.00; Sun 10.00.
ANN: E: "R. Western District, st. VL8BD broadc. from Daru Isl. in Papua". Police Motu: "Inai station be Western District Taunimanima ibounai edia" — **INT-SIG:** Native Drumming, Native Singing; Jungle Birds. **V.** by Data Sheet QSL-card.

RADIO GOROKA (Gov.)
ADDR: Adm. Broadc. St, P.O. Box 146, Goroka. **Te:** 218. **Cable:** "Adcast" — **L.P:** St. Mgr: S. M. Piniau. Supervising Technician: J. Wright.
STATION (G.C: 145.23E/06.04S): VL9CG 2410kHz 124.5m 0.25kW.
HOME SCE. in Pidgin, English, Gahuku: 07.45-12.00. **N:** 08.00 (English), 08.45 (Pidgin), 09.15 (Gahuku), 10.00 (English and Pidgin), 10.30 (Pidgin) — **ANN:** E: "R. Goroka st. VL9CG"; Pidgin: "Stesin bilong yumi". **V.** by QSL-card. Re. welcomed — **PUB:** Pamphlets available on limited basis.

RADIO MOUNT HAGEN (Gov.)
ADDR: Mount Hagen, Western Highlands District. **Te:** 177. **Cable:** "Adcast" — **L.P:** St. Mgr: B. Perkins. Supervising Technician: R. Clark.
STATION (G.C: 144.14E/05.51S): VL9CH 2450kHz 122.5m 0.25kW.
HOME SCE. in English, Pidgin, Enga, Medlpa, Mid-Wahgi: 07.30-11.30. **N:** Mon-Fri 08.35 (Medlpa/Pidgin), 08.45 (Enga), 09.20 (Mid-Wahgi). **Territory N:** Sat/Sun 08.30 (in Pidgin only), Sun 09.15 World N. in Pidgin (ABC relay) — **V.** by data sheet. Recordings accepted.

RADIO BOUGAINVILLE
ADDR: P.O. Box 35, Kieta, Bougainville, Papua-New Guinea. **Cable:** "Adcast" — **L.P:** St. Mgr: G. N. Heard. Dir. Tec: T. Gware.
STATION: VL9BA 3322kHz 90.30m 2kW.
HOME SCE. in Pidgin: 07.00-12.00. **N:** 08.05, 11.05, (Mon-Fri), 09.15 (Sun). **Mailbag:** 10.30 (Mon-Fri).

Traditional Music Prgr: 07.05 (D) — **ANN:** "Tupela i wok long harim Radio Bougainville Stesin VL9BA i brodkas i kam long Kieta" — **INT-SIG:** 4 gongs — **V.** by QSL-card.

RADIO MILNE BAY
ADDR: P.O. Box 6, Samarai, Milne Bay District.
L.P: St. Mgr: R. J. Hosking.
STATION: VL8AS 3235kHz 92.74m 0.25kW.
HOME SCE. in English and Vernaculars (Suau, Wedauan, Dobuan): D 17.30-21.00, 07.30-13.00. **EC:** a/c 50 (no).

SAMOA (American)

L.T: GMT−11h — **Pr.L:** Samoan, English.

RADIO STATION WVUV (Gov.)
ADDR: Office of Samoan Information, Pago Pago. **Te:** 648.
STATION: WVUV 1120kHz 10kW.
HOME SCE: 18.00-24.00, 05.00-09.30. **N. English:** Mon-Fri 18.30, Tues-Sat 05.45, 09.15; Sat 22.00, 23.00, 24.00. **Samoan:** Mon-Fri 19.45, 06.30, 07.30 — **Samoan Music:** 06.30 — **ANN:** "This is st. WVUV, Pago Pago, American Samoa" —**V.** by letter.

SAMOA (Western)

L.T: GMT−11h — **Pr.L:** Samoan, English.

SAMOA BROADCASTING SERVICE 2AP (Gov, Comm.)
ADDR: P.O. Box 200, Apia. **Te:** 2. **Cable:** Voxpac.
L.P: Dir: J. W. Moore. Prgr. Supervisor: L. Levi. Chief Eng: J. K. Brown.
STATION: 2AP Apia 1420kHz 211.3m 10kW.
HOME SCE. in English/Samoan: Mon-Fri 17.00-20.15, 23.00-00.30, 04.30-09.30; Sat 17.00-00.30, 04.30-09.30; Sun 20.00-01.30, 05.00-09.30. **English:** 05.00-06.30 (Mon-Sat). **Bilingual:** 17.00-20.15 (W), 17.00-01.30 (Sat/Sun). **Samoan only:** 06.30-09.30 (Mon-Sat) — **N. in English:** W 18.00, 20.00, 23.30, 24.00, Sun 20.00, 23.30, 24.00 (from ABC or BBC). **N. in Samoan:** W 07.30, Sun 06.15.
ANN: E: "2AP, Apia, The Samoa Broadc. Service". Samoan: "Ole Si'ufofoga Lenei o Samoa i Sisifo, Ole 2AP i Apia". (The Voice of Western Samoa, 2AP Apia) — **V.** by QSL-card. Rec. acc. Rp — **INT-SIG:** Gong — **F.PL:** English Prgr's on 1150kHz (0.3kW); Nat Prgr. (exp) 05.30-08.30 — **FI:** By Gov. appropriation and adv. — **AD:** 17.00-19.00, 05.00-09.30 mainly spots in English, Samoan.

SOLOMON ISLANDS (British)

L.T: GMT+11h — **Pr.L:** English, Pidgin-English.

SOLOMON ISLANDS BROADCASTING SERVICE (Gov, Comm.)
ADDR: S.I.B.S., Honiara. **Te:** 425. **Cable:** Broadcast.
L.P: Broadc. Officer: B. J. Whitehall. Asst. Broadc. Officer: W. Bennet, MBE. Dir. Tec: P. Butler. Sen. Producer: B. D. Strong.
STATIONS (G.C: 160.03E/09.25S):
VQO 1030kHz 291.3m 5kW: all times
VQO4 3995kHz 75.09m 5kW: morning+evening
VQO7 7115kHz 42.16m 5kW: daytime
HOME SCE: 19.00-22.00 on 1030/3995kHz, 01.00-03.00 (Mon-Sat) on 1030/7115kHz, 07.30-11.30 on 1030/3995 kHz.
N. in English: 19.30, 20.00 (BBC), 20.09, 20.45 (ABC), 02.30 (ABC), 09.00, 10.00 (BBC). **N. in Pidgin-English:** 08.00 — **For Schools:** Mon-Fri 21.30-23.30.
ANN: "This is the Solomon Islands Broadc. Sce". **INT-SIG:** Drum and Pan Pipes — **V.** by QSL-card. Re. must contain details to establish authenticity. Recordings accepted — **PUB:** "Preview" prgr-schedule free — **FI:** By Gov. and Licence payments, adv — **AD:** Mon-Fri 19.00-21.30, 17.30-11.00, Sat 08.00-11.00 — **ALF:** $A2,-

TAHITI (French)

L.T: GMT−10h — **Pr.L:** French, Tahitian — **EC:** a/c 60 (yes).

RADIO TAHITI (Gov.)
ADDR: B.P. 125, Papeete. **Te:** 20551. **Cable:** R. Tahiti.
L.P: St. Mgr. and Dir. Tec: A. Vasseur. Dir. on N: R. Pietri.
STATIONS (4kW): 1400kHz 214m — 6135kHz 48.90m — 11825kHz 25.37m.

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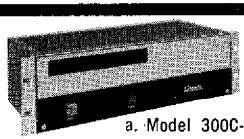
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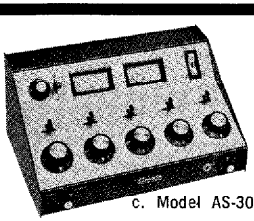
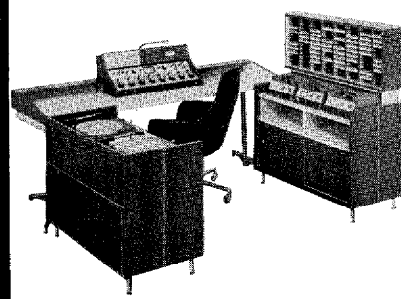

c. Model AS-30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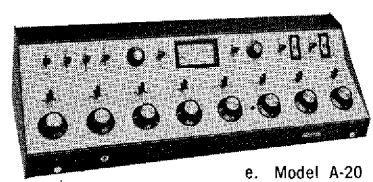
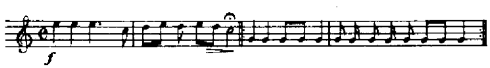

e. Model A-20

HOME SCE: W 16.15-18.30, 21.00-23.30, 03.00-08.00; Sun 20.00-23.00, 03.00-08.00 (on all freq's).
French: W 16.15-18.15, 21.45-23.30; Sun 05.00-08.00. **N:** W 16.15, 16.40, 18.00, 22.15, 06.00, 08.00; Sun 21.40, 06.00 — **Tahitian:** W 21.00-21.45, 03.00-05.00; Sun 03.00-05.00. **N:** 21.30 (W), 04.00 (W) — **Bilingual:** Sun 20.00-23.00. Although times are GMT, calendar days apply to Tahiti only.
ANN: F: "Ici Tahiti Office de Radiodiffusion-Télévision Française". Tahitian: "O Radio Tahiti" — **INT-SIG:** Tahitian flute (vivo) and drums — **AD:** D 21.45, 03.45.



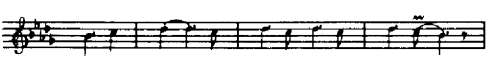
TONGA (Kingdom of)

L.T: GMT+13h — **Pr.L:** Samoan, Fijian, Tongan, English.

TONGA BROADCASTING COMMISSION (Gov.)
ADDR: P.O. Box 36, Nuku'alofa. **Cable:** Broadcom. **Te:** 105.
STATION: 1020kHz 10kW (G.C: 174.30W/21.30S).

HOME SCE. in Tongan, English: 18.00-21.00, 23.00-01.00, 05.30-10.00 — **N. in Tongan:** 19.00-06.15. **N. in English:** 18.00 (BBC), 19.00 (ABC), 00.15 (NZBC), 07.00 (ABC). **Samoan:** Tues, Thurs 09.00. **Fijian:** Fri 09.00. **Wrp.** (for Tonga, Niue, Samoa, Fiji): At end of N. and 19.15.

ANN: E: "This is the Call of the Friendly Islands ZCO Nuku'alofa of the Tonga Broadc. Commission". Tongan: "Ko e Ui eni'a e 'Otu Felenite, mei he ZCO Nuku'alofa 'a e Komisoni Fakamafola Lea Tonga". Samoan: "O le siu fofoga leni o le otu motu o Tonga, ZCO Nuku 'alofa o le Komesinio Faasalalaunga o Tonga" — **INT-SIG:** Tongan Nose Flute — **V.** by QSL-card. Recordings accepted — **FI:** By Gov. and revenue from adv.



TRUST TERRITORY OF THE PACIFIC ISL. (Micronesia)

(Mariana Islands (ex. Guam), Caroline Islands, Marshall Islands.)

L.T: Marshalls GMT+12h; Ponape GMT+11h; Truk, Yap, Marianas GMT+10h; Palau GMT+9h — **Pr.L:** Chamorro, Carolinian, Yapese, Palauan, Trukese, Marshallese, Ponapean, Kusaieian, Kapingamarangi, English.

ADDR: Head Office: High Commissioner, Trust Territory of the Pacific Islands, Saipan, Mariana Islands 96950.

L.P: Dir. of Broadc: J. T. Lely. Com/Public Affairs: N. Neiman Craley Jr. Studios: Ponape, Eastern Caroline Isl. 96941 (WSZD). St. Mgr: C. Thomas; Truk, Eastern Caroline Isl. 96942 (WSZC). St. Mgr: K. Peter; Saipan, Mariana Isl. 96950 (KJQR). St. Mgr: Rudy Sablan. Palau District Koror, Western Caroline Isl. 96940 (WSZB). St. Mgr: H. Rodas: Marshall Isl. District, Majuro, Marshall Isl. 96960 (WSZO), St. Mgr: Lawrence Edwards; Yap District, Eastern Caroline Isl. 96943 (WSZA). St. Mgr: A. Yug.

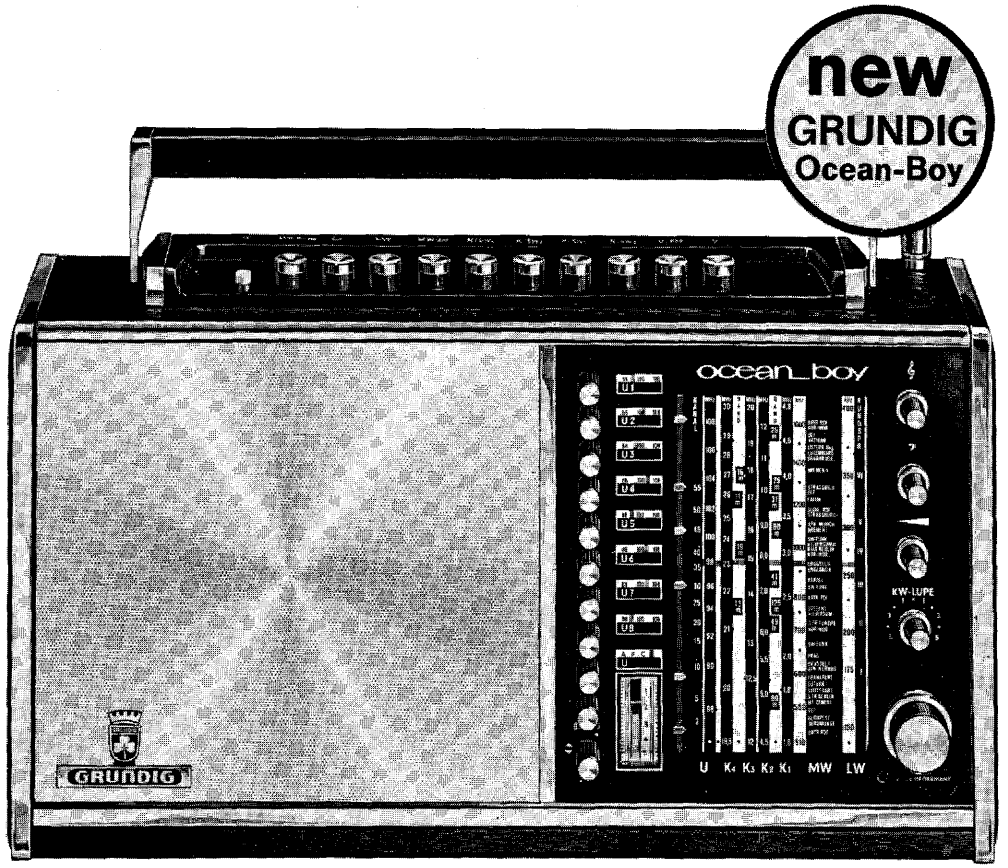
STATIONS

Location	Call	kHz	kW	H. of tr.
Ponape	WSZD	1450	1	19.00-13.00
Truk	WSZC	1500	1	20.00-14.00
Saipan	KJQR	1350	1	20.00-14.00
Koror	WSZB	1500	1	21.00-15.00
Majuro	WSZO	1440	1	18.00-12.00
Yap	WSZA	1480	1	20.00-14.00

G.C: Ponape 157E/7N, Truk 151E/7N, Saipan 144E/16N, Koror 133E/7N, Majuro 170E/7N, Yap 137E/10N.
Prgr's: Education and entertainment. **English:** Varies between stations.

ANN: Ponape: "This is R. St. WSZD, Ponape — Met. St. WSZD Nam Ponape". Truk: "This is R. St. WSZC in Moen Truk — Ach nenien appoi WSZC non nomun Truk". Saipan: "This is R. St. KJQR Saipan". Koror: "This is R. St. WSZB, Koror, Palau". Majuro: "This is R. St. WSZO Majuro". **Yap:** "This is R. St. Yap".

V. by letter (all st's) — **F.PL:** WSZO 10kW, WSZD 10kW, WSZC 5kW in 1970.



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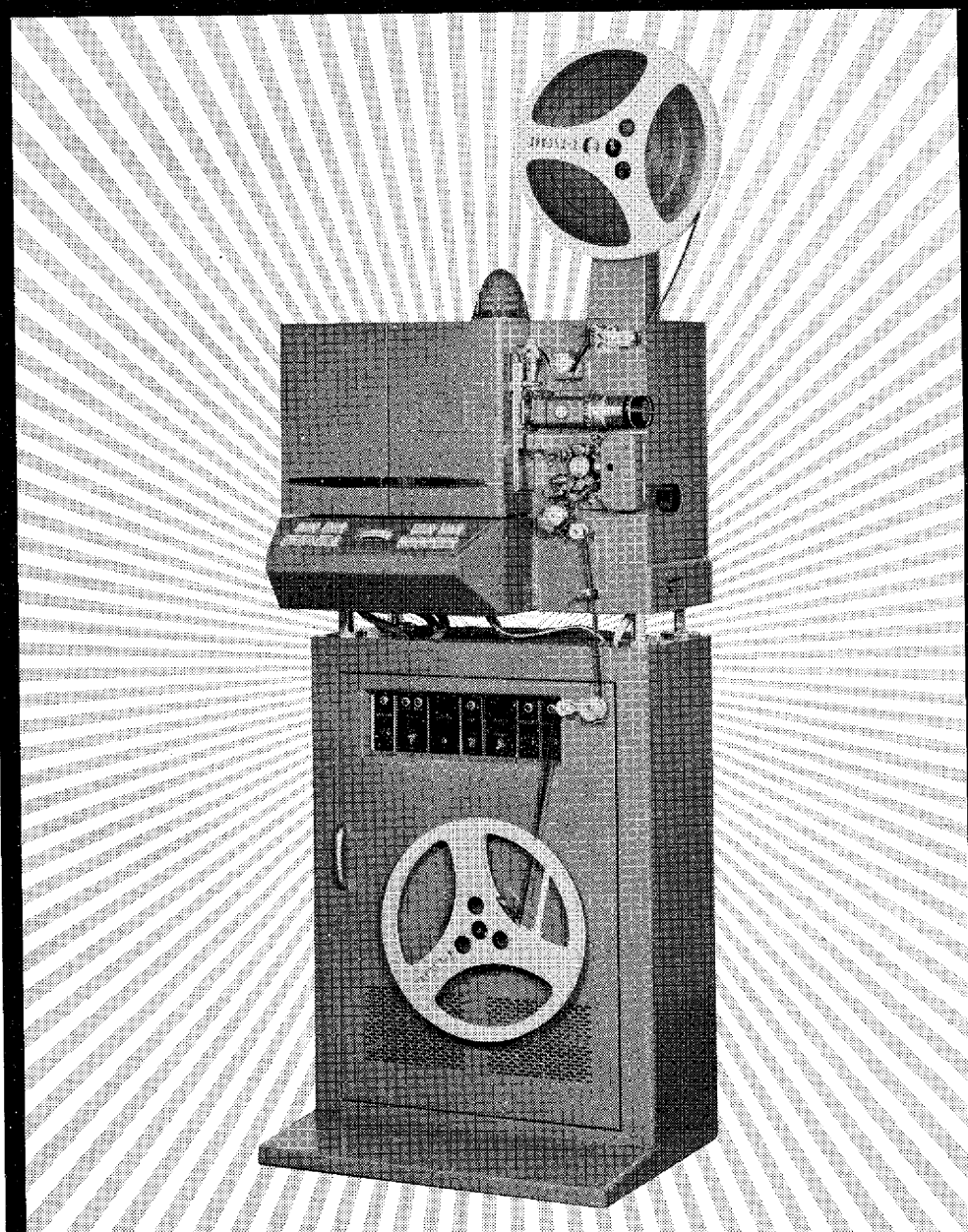

Model TC-510D

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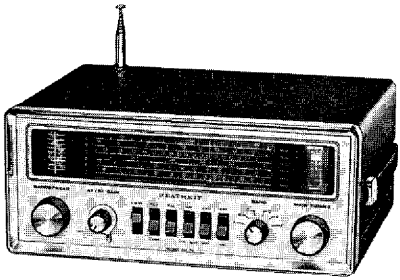

GR-78 6-Band General Coverage Receiver

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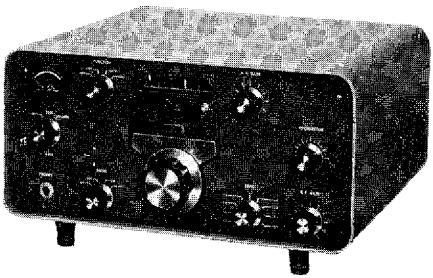
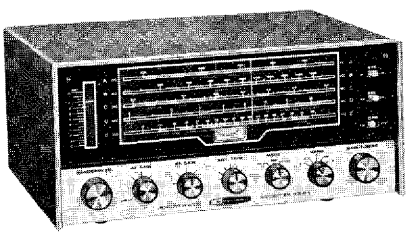
Kit GR-78, 14 lbs..... **$129.95***



SB-310 Professional 10-Band Receiver

• Covers 49, 41, 31, 25, 19 & 16 M shortwave broadcast bands, 80, 40 & 20 M amateur bands, 11 meter CB • Built-in 5 kHz crystal filter for sharp selectivity • Built-in 100 kHz crystal calibrator • Prebuilt & aligned Linear Master Oscillator with 1 kHz dial calibration for perfect tuning characteristics • ANL • Headphone jack • Separate RF & AF gain controls • Calibrated "S" meter

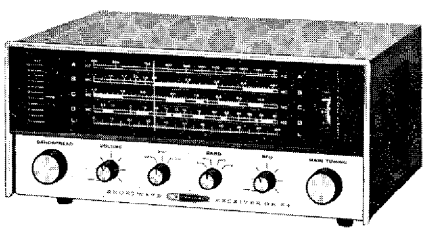
Kit SB-310, 24 lbs..... **$259.95***



GR-54 Deluxe 5-Band Shortwave Receiver

• 3 shortwave bands cover 2-30 MHz plus 180 kHz to 420 kHz aeronautical & radio navigation band plus AM broadcast • Tuned RF stage for greater sensitivity • Crystal filter for excellent selectivity • Receives AM, CW, LSB & USB • "S" meter • Bandspread tuning • ANL, AVC & antenna trimmer controls • Headphone jack • Includes long wire antenna

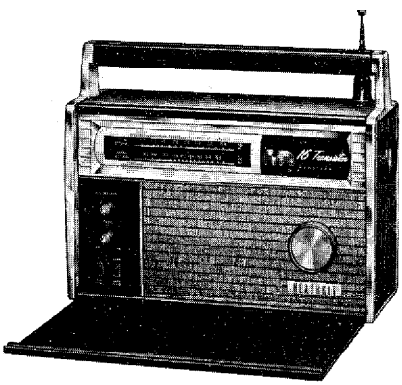
Kit GR-54, 25 lbs..... **$89.95***



GR-64 Low Cost 4-Band Receiver

• Covers 550 kHz to 30 MHz — includes AM broadcast plus 3 shortwave bands • Bandspread tuning • Built-in relative signal strength meter • Variable BFO for tuning SSB & CW signals • Built-in switchable Automatic Noise Limiter • Q-Multiplier and external antenna inputs • Built-in AM rod antenna • Headphone jack • Simple circuit board construction for 8-10 hour assembly

Kit GR-64, 15 lbs..... **$42.50***



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• Tunes 150-400 kHz Longwave, AM Broadcast, FM and seven shortwave bands from 2—22.5 MHz • All solid-state design for maximum reliability and long life • 44 factory assembled and aligned circuits for excellent performance and easier assembly • Two built-in antennas for superb performance on all bands • Completely portable . . . runs on seven flashlight batteries (not supplied) or accessory converter/charger • Battery-saver switch cuts power drain up to 35% • 4x6" speaker for console sound • Comes complete with earphone • Time zone maps and "listener's guide" included • Fast, enjoyable assembly with the famous Heathkit manual

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LA PAZ
ROSARIO
ZACATECAS
COLON
CAP HAITIEN
PUERTO PLATA
PUERTO RICO
CUBA
MEXICO
TAMPICO
S. LUIS POTOSI
SANTIAGO DE CUBA
KINGSTON
DOMINICAN REP.
HAITI
GUADALAJARA
LEON
IRAPUATO
MEXICO CITY
MERIDA
JAMAICA
West Indies
ZAMORA
MORELIA
URUAPAN
PUEBLA
JALAPA
VERA CRUZ
ORIZABA
VILLA HERMOSA
TUXTLA GTRIEZ
BELIZE
BR. HONDURAS
CARIBBEAN SEA
ZITACUARO
OAXACA
ACAPULCO
CENTRAL
AMERICA
BARRANQUILLA
CARTAGENA
MARACAIBO
TRUJILLO
VENEZUELA
BLUE FIELDS
COLON
LIMON
SANTIAGO
PANAMA
COLOMBIA
MEDELLIN
NORTH PACIFIC OCEAN

NORTH AMERICA

BERMUDA (British)

L.T: GMT— 4h — Pr.L: English — E.C: a/c 60 (yes).

BERMUDA BROADCASTING CO. LTD. (Comm.)
ADDR: Box 452, Hamilton. Te: 2-1122. Cable: ZBM Bermuda
L.P: Man. Dir: W. Staskow. Gen. Mgr: Q. Edness. Dir. Tec: Bryan Lodge.
STATIONS (1kW): ZBM1 1235kHz — ZBM2 1340kHz. FM: 89.1 MHz.
HOME SCE. in English: On 1235kHz: 24h — On 1340kHz: 24h.N, Wrp: 10.55, 11.45, 13.00, 15.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30, 04.00, 04.30, 05.00 — Portuguese: 09.45-10.15 on 1235 kHz.
ANN: "This is ZBM Radio Bermuda" — V. by QSL-card. Rp. Recordings accepted.

CAPITAL BROADCASTING CO. LTD.
ADDR: Box 652, Hamilton. Te: 2444. Cable: Capbro — L.P: Man. Dir: M. E. Sheppard. St. Mgr: E. Davis. Dir. Tec: P. Grimley. Prgr. Mgr: Mrs M. Butterfield.
STATION: 960kHz 1kW — HOME SCE. in English: 24h — N: 10.55*, 11.30, 12.25, 13.30*, 14.30, 16.15*, 16.30, 17.25*, 20.55*, 22.15*, 22.45, 02.25, 06.00, 08.00* (* = Headlines).
ANN: "This your favourite R. Station ZFB 960 on your dial" V. by letter — PUB: Prgr. schedule on request.

CANADA

L.T: See Time Table — Pr.L: English, French.

Abbreviations: Nfld = Newfoundland; NS = Nova Scotia; PEI = Prince Edward Isl; NB = New Brunswick; P = Pacific; Que = Quebec; Ont = Ontario; Man = Manitoba; Sask = Saskatchewan; Alta = Alberta; BC = British Columbia; NWT = North West Territories; Lab = Labrador; YT = Yukon Territory — EC: a/c 60 (yes)

CANADIAN BROADCASTING CORPORATION
(Publicly-owned)
ADDR: Head Office: P.O. Box 478, Terminal "A", Ottawa. Cable: Broadcast. Telex: 013260. Te: 731-3111. English Networks Div: P.O. Box 500, Terminal "A", Toronto. Cable: Broadcast. Telex: 022763. Te: 925-3311. French Networks Div: P.O. Box 6000, Montreal. Cable: Radcan. Telex: 05267668. Te: 868-3211. Engineering Headquarters: 7925 Cote St. Luc Road, Montreal. International Sce: P.O. Box 6000, Montreal, P.Q.
L.P: Head Office: Pres: G. F. Davidson; Executive Vice-Pres: L. A. Picard; Vice-Pres. Planning: J. P. Gilmore; Vice-Pres. and Gen. Mgr. Reg. Broadc: Ch. Jennings; Vice-Pres. Corporate Affairs & Asst. to Pres: R. C. Fraser; Vice-Pres. Programming: M. Ouimet; Vice-Pres. Adm: G. Coderre; Vice-Pres. Finance: V. F. Davies; Vice-Pres. Engineering: R. D. Cahoon (Mtl); Dir. Gen. External Sce's Div: H. G. Walker; Gen. Counsel: J. Alleyn; Dir. Overseas and Foreign Rel: Miss B. Zimmerman.
English Network (Toronto): E. S. Hallman, Vice-Pres. and Gen. Mgr, network broadc. (Eng); J. T. Craine, Dir. of radio; K. Nash, Dir. Inf. Programms (radio-TV); A. Brown, Acting Program Dir; G. H. Jones, Divisional Engineer; A. H. Partridge (Ag); Divisional Head, Foreign Relations & Export Sales.
French Network (Montreal): R. David, Vice-Pres. and Gen. Mgr, network broadc. (French); F. Guérard, Dir. of radio; A. Boisvert, Radio Programming Dir; M. Morais, Divisional Engineer; L. Hébert, Sup. Overseas and Foreign Rel.

English Network: ° = also on Shortwave.

	Call	kHz	m	kW		Call	kHz	m	kW
1)	CBT	540	555.6	10	14)	CBW	990	303.0	50
2)	CBK	540	555.6	50	15)	CBR	1010	297.0	50
3)	CFWH	570	526.3	1	16)	CBA	1070	280.4	50
4)	CBN	°640	468.8	10	17)	CBD	1110	270.3	10
5)	CBU	°690	434.8	50	18)	CBI	1140	263.2	10
6)	CBL	740	405.4	50	19)	CFFB	1200	250.0	0.04
7)	CBX	740	405.4	50	20)	CHFC	1230	243.9	0.25
8)	CBH	860	348.8	10	21)	CFGB	1340	223.9	1
9)	CFPR	860	348.8	10	22)	CFYK	1340	223.9	1
10)	CHAK	860	348.8	1	23)	CBG	1450	206.9	0.25
11)	CBO	910	329.7	5	24)	CBZ	970	309.3	10
12)	CBM	940	319.1	50	25)	CBE	1550	193.5	10
13)	CBY	990	303.0	10					

1) Hight St. and Mill Rd, Grand Falls, Nfld. — 2) 1840 McIntyre St, Regina, Sask. — 3) P.O. Box 730, Whitehorse, YT. — 4) P.O. Box 5490, St. John's, Nfld. — 5) 747 Bute St, Vancouver, BC. — 6) P.O. Box 500, Terminal "A", Toronto, Ont. — 7) P. O. Box 555, Edmonton, Alta. — 8) P.O. Box 3000, Halifax, NS. — 9) Stiles Place at 3rd St, Prince Rupert, BC. — 10) P.O. Box 1220, Inuvik, NWT. — 11) P.O. Box 3220, Station "C", Ottawa, Ont. — 12) P.O. Box 6000, Montreal, Que. — 13) P.O. Box 610, Corner Brook, Nfld. — 14) P.O. Box 160, Winnipeg, Man. — 15) 1724 Westmount Blvd, Calgary, Alta. — 16) 232 St. George St, Moncton, NB. — 17) St. John, NB. — 18) P.O. Box 700, Sydney, NS. — 19) P.O. Box 490, Frobisher Bay, NWT. — 20) P.O. Box 40, Churchill, Man. — 21) P.O. Box 490, Happy Valley, Lab. — 22) P.O. Box 160, Yellowknife, NWT. — 23) 98 Sullivan Ave, Gander, Nfld. — 24) P.O. Box 1538, Fredericton, NB. — 25) Security Bldg University and Pellissier, Windsor, Ont. + 169 low power relay st's not mentioned + 61 privately-owned affiliated st's.
Short Waves:
4) CKZN 6160kHz 48.70m 0.3kW: 09.30-05.00 (Relay CBN)
5) CKZU 6160kHz 48.70m 0.5kW: 14.00 (Sun 15.00)-09.05 (Relay CBU).
Note: Although times are in GMT, calendar days apply to Canada only. M-F = Mon. Fri.
4) N: 10.00, 10.30 (not Sun), 11.00, 11.30 (not Sun), 12.00, 12.30 (not Sun), 13.00 (not Sat), 14.25 (not Sun), 15.30 (BBC, not Sun), 15.45 (Sun only), 16.00 (not Sun), 17.00 (BBC, Sun only), 17.00 (not Sun), 17.30 (Sun only), 18.00 (not Sun), 19.00 (Sun only), 19.12 (M-F), 20.00 (not Sat), 21.00 (not Sat), 21.30 (M-F), 22.00 (not Sat), 23.15 (not Sun), 24.00 (not Sun), 01.00 (not Sun), 02.00, 03.00, 04.00 — Wrp: After N at 11.00, 15.45 (Sun), 17.00 (Sat), 22.30.
5) N: 14.00, 15.00, 15.30, 16.00, 17.00, 18.00, 20.00, 22.00, 23.00, 00.00 (BBC), 01.00, 02.00, 04.00, 06.00, 07.00, 08.00, 09.00. Sat: 14.00, 15.00, 15.30, 16.00, 16.30, 17.00 (BBC), 18.00, 19.00, 20.00, 21.00, 23.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 08.00, 09.00, Sun: 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 08.00, 09.00 — Wrp: After N at 20.00 and 08.00.
FM: CBU-FM (Vancouver) 105.7MHz 100kW (stereo), CBL-FM (Toronto) 94.1MHz 11.9kw, CBM-FM (Montreal) 100.7MHz 24.6kW, CBO-FM (Ottawa) 103.3MHz 10kW, CBW-FM (Winnipeg) 98.3MHz 354kw (stereo).

French Network:

	Call	MHz	m	kW		Call	MHz	m	kW
1)	CBAF	1300	230.8	5	4)	CBJ	1580	189.9	10
2)	CBV	980	306.1	5	5)	CBOF	1250	120.0	10
3)	CBF	690	434.8	50	6)	CJBC	860	348.8	50

1) P.O. Box 950, Moncton, NB. — 2) P.O. Box 400, Upper Town, Quebec City, P.Q. — 3) P. O. Box 6000, Montreal, Que. — 4) 121, rue Racine Est, Chicoutimi, Que. — 5) P.O. Box 3220, Ottawa, Ont. — 6) P.O. Box 500, Terminal "A", Toronto, Ont. + 40 low power st's not mentioned + 34 privately-owned affiliated st's.
FM: CBF-FM (Montreal) 96.1 MHz 24.6kW, CBUF-FM (Vancouver) 97.7MHz 50kW (stereo).

EXTERNAL SERVICES DIVISION
Addr: Canadian Broadcasting Corporation, P.O. Box 478, Terminal "A", Ottawa.
L.P: H. G. Walker. Dir. Gen. Ext. Scs Div; C. R. Delafield, Dir. of Intern. Sce; Miss B. Zimmerman, Dir. Overseas and Foreign Rel.; A. N. Partridge (Ag), Divisional Head, Foreign Rel. and Export Sales (English networks — Toronto); L. Hébert, Sup. Overseas and Foreign Rel. (French networks, Montreal).
Offices Outside Canada:
CBC Representatives: **London:** J. R. Finlay, 49-51 Great Titchfield St, London W1, England. **Paris:** J. Saint-Georges, 17, Avenue Matignon, Paris 8, France. **New York:** Miss D. McCullum, 34th Floor, 245 Park Ave, New York, N.Y. 10017, USA. **Rome:** Miss C. Salviati, Stanza 501, RAI Via del Babuino 9 00187 Rome, Italy. (Liaison Officer.)

INTERNATIONAL SERVICE (Publicly Owned)
ADDR: P.O. Box 6000, Montreal. Cable: Intrad.
L.P: Dir: C. R. Delafield. Superv. of Sections: A. L. Pidgeon. Superv. of Eng. Section: S. B. Duke. Supervisor of Inf. Sce's: G. Teffaine. Public Rel. Officer: K. D. Renner. Coordinator of Transcription Sce's: G. Poupart. Head of Prgr's: G. Arthur. Head of Sections: English: P. A. Tallman, French: Lucien Côté. Latin American: P. Marcos Bilbao. German: G. P. Pick. Czechoslovakian: W. Schmolka. Polish: T. Sypniewski. Russian: C. Chipman. Hungarian: J. Mezei. Ukrainian: B. Wesolowsky.
STATIONS: All international sw. broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All prgr's are sent by landline from Montreal to Sackville, New Brunswick, on Canada's Atlantic coast, whence they are transmitted by three 50kW tr's (G.C: 64.19W/45.53N).

kHz	m	kHz	m	kHz	m	kHz	m
5955	50.38	9625	31.17	11905	25.20	15325	19.58
5970	50.25	9630	31.15	11945	25.12	17820	16.84
5990	50.08	11720	25.60	15190	19.75	21595	13.89
9610	31.22	11780	25.47	15320	19.58		

EUROPEAN SERVICE: 05.58-0630, 07.10-08.05, 10.55-12.15, 12.17-13.13, 13.15-13.43, 13.45-18.30, 20.00-21.52, 21.58-22.34 (21.58-22.50 (Sat only).
05.58-06.30 on 5990/9625kHz (5955/9625kHz March/April); 07.10-08.05 on 5990/9625kHz (9625/11780kHz March/April). 10.55-12.15 on 15325/17820kHz; 12.17-13.13 on 17820kHz; 13.15-13.43 on 17820/21595kHz; 13.45-18.30 on 15325/17820/21595kHz (15320/17820/21595kHz March/April; 20.00-21.52 on 9610/11720/15325kHz (11905/15325/17820kHz); 21.58-22.34 (21.58-22.50 Sat only) on 9625kHz (15190kHz March/April). All beams in this service 60°.

Times	Programmes	News English	News French
05.58-06.30	Canadian Forces		
07.15-07.45	**English**	07.15	
07.45-08.05	French		07.45
10.55-12.15	Canadian Forces		
12.17-13.13	**English**	12.17	
13.15-13.43	French		13.16
13.45-14.15	Ukrainian		
14.15-14.45	Russian		
14.45-15.15	Czech		
15.16-15.29	News	15.16	15.22
15.30-16.00	Polish		
16.00-16.15	Russian		
16.15-16.30	Slovak		
16.31-16.59	Canadian Forces	16.32	16.50
17.00-17.15	Polish		
17.15-17.45	Czech		
17.45-18.15	German		
18.15-18.30	Hungarian		
20.00-20.44	French		20.01
20.45-21.15	Canadian Forces	*21.00	20.45
21.15-21.52	**English**	†21.30	
21.58-22.50	Canadian Forces		

*= Sat/Sun only; †= Mon/Fri only.

NORTH AMERICAN & ANTILLES SERVICE: 12.17-13.13 in English on 9625/11720kHz (240°/184°); 13.15-13.43 in French on 11720kHz (184°). News: English 12.17 — French 13.16.

AFRICAN SERVICE: 07.15-08.00 (relayed simultaneously by BBC), 18.32-19.58.
07.15-07.45 in English, 07.45-08.00 in French; 18.32-19.15 in English, 19.15-19.58 in French on 11905/15325/17820kHz (15325/17820/21595kHz March/April) 78°/97°/97° (97°/97°/60°).
N: English 07.15, 18.32. French 07.45, 19.15.

NORTHERN CANADA SERVICE (East, Central, West): 00.58-07.06 in English, French and Eskimo; 10.55-12.15, 15.16-15.29, 16.31-16.59, 21.58-22.50 in English and French. 00.58-04.00 on 5970/9625/11720kHz (5990/9625/11720kHz March/April) all 338° (351°/338°/338°); 04.00-07.06 on 5970/9625kHz (5990/9625kHz March/April); 10.55-12.15 on 9625kHz; 15.16-15.29 & 16.31-16.59 on 15325kHz (15320kHz March/April); 21.58-22.50 on 11720/15190kHz (351°/338°) (9625/11720kHz March/April all 351°).
N. in English: 01.00, 02.00 (W), 03.30 (Sun) 04.00, 05.00, 06.00, 07.00, 15.16. **N. in French:** 03.00 (W), 16.15 (Sun) 07.20 (W).

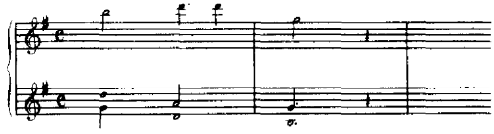
CARIBBEAN & LATIN AMERICAN SERVICE: 22.58-00.46 on 9625/11945/15190kHz (250°/171°/184°), 22.58-23.30 in English, 23.30-24.00 in Portuguese, 00.00-00.46 in Spanish.
N. in English: 23.00.

SOUTH PACIFIC SERVICE: 08.25-09.35 in English on 59.70/96.30kHz (250°/290°) (290°/250° March/April).
N. in English: 08.30.

DX-PRGR (times indicated are approx.): **English:** Sat 07.31 (Africa), 08.46 (So. Pacific), 12.33 (Europe, No. Am. & Caribbean), 18.49 (Africa), 21.24 (Europe), 23.16 (Caribbean/USA). **French:** Sat 19.49 (Africa), Sun 07.45 (Africa/Europe) 13.20 (Caribbean/USA), 20.25 (Europe). **German:** 17.55 (BBC relay 18.40). **Czech:** Sun (every 2nd) 15.00, 17.30. **Portuguese:** Sat 23.45. **Polish:** Sat 17.00, (BBC relay 21.15), Sun 15.45.

ANN: E: "This is the International Sce. of the CBC", F: "Ici R. Canada". G: "Hier spricht Kanada". P: "A. R. Canada transmite para o Brasil". Sp: "Transmite R. Canada". Czech: "Kanada volá Československo". Polish: "Tu mowi Kanada". Slovak: "Hovori Kanada".

INT-SIG: First four notes of National Anthem: "O Canada" (piano):



V. by letter or QSL-card — **PUB:** CBC-Radio-Canada prgr. sched. published four times a year, sent free upon request — **F.PL:** Seven 250kW sw-tr's.

PRIVATELY OWNED COMMERCIAL STATIONS

CANADIAN ASSOCIATION OF RADIO AND TELEVISION BROADCASTERS: Head Office, 108 Sparks St. Ottawa 4. **L.P:** Dir. Research & Records: F. H. Pemberton.
Medium Waves: Stations less than 1kW not mentioned. °= also Short Wave.

	Call	kHz	kW
1)	CFNB	550	50
2)	CHLN	550	10/5
3)	CKPG	550	10
4)	CFBR	550	1
5)	CHTK	560	1/0.25
6)	CJKL	560	1
7)	CKCN	560	10/5
8)	CFOS	560	1
9)	CHCM	560	1/0.5
10)	CKNL	560	1
11)	CJFM	570	5/1
12)	CFCB	570	1
13)	CKCQ	570	1
14)	CKEK	570	1
15)	CFRA	580	50/10
16)	CHLC	580	5/2.5
17)	CJFX	580	10
18)	CKPR	580	5/1
19)	CKRX	580	1
20)	CKUA	580	10
21)	CKY	580	50
22)	CKAP	580	1
24)	VOCM	590	10
25)	CKEY	590	10
26)	CFAR	590	10/1
27)	CFTK	590	1
28)	CKRS	590	1
29)	CFCF	°600	5
30)	CFCH	600	10/5
31)	CFQC	600	5
32)	CJOR	600	10
33)	CKCL	600	1
34)	CHNC	610	10/5
35)	CKTB	610	10/5
36)	CKYL	610	10/1
37)	CHTM	610	1
38)	CJAT	610	1
39)	CKML	610	1
40)	CFCL	620	10/5
41)	CKCK	620	5
42)	CKCM	620	10
43)	CFCY	630	10
44)	CFCO	630	10/1
45)	CHED	630	10
46)	CHLT	630	10/5
47)	CJET	630	10
48)	CKRC	630	10
49)	CKAR	630	1
50)	CKOV	630	5/1
51)	CHFA	680	5
52)	CJCN	680	10
53)	CJOB	680	10/2.5
54)	CKGB	680	10
55)	CHFI	680	1/10
56)	CHLO	680	1
57)	CFRG	710	5
58)	CKVM	710	10/1
52)	CJOX	7101	
59)	CHYR	710	10
60)	CKAC	730	50
61)	CKDM	730	10/5
62)	CKLG	730	10
63)	CJNR	730	10
64)	CFDR	790	5
65)	CFCW	790	10
66)	CKSO	790	10/5
67)	CHIC	790	1/0.5
68)	CKMR	790	1
69)	CHAB	800	10
70)	CHRC	800	50
71)	CJAD	800	50/10
72)	CJLX	800	10/5
73)	CKOK	800	10/0.5
74)	CKLW	800	50
75)	CFOB	800	1/0.5
76)	CJBQ	800	1
77)	VOWR	800	1
78)	CHQR	810	10
79)	CKRD	850	10/1
80)	CKVL	850	0/105
81)	CJJC	850	1
82)	CHML	900	5
83)	CHNO	900	10/1
84)	CJBR	900	10
85)	CJVI	900	10
86)	CKBI	900	10
87)	CKVD	900	10/2.
88)	CKDH	900	1 5
89)	CKDR	900	1/0.2
90)	CKJL	900	1 5
91)	CKTS	900	10
92)	CFJC	910	10/1
93)	CJDV	910	5
94)	CHRL	910	1
95)	CKLY	910	1
96)	CJCH	920	10/5
97)	CKCY	920	10/5
98)	CFRY	920	1
99)	CJCJ	920	1
100)	CKNX	920	10/1
101)	CFBC	930	10/5
102)	CJCA	930	10/5
52)	CJON	930	10
103)	CJGX	940	10
104)	CJIB	940	10/1
105)	CKBB	950	10/2.5
106)	CKNB	950	10/1
107)	CHER	950	10
167)	CFAM	950	10
108)	CFAC	960	10/10d
109)	CHNS	°960	10
110)	CKWS	960	10/5
111)	CKCH	970	5
112)	CIYR	970	10
113)	CFPL	980	10/5
114)	CHEX	980	10/5
115)	CKGM	980	10
116)	CKNW	980	50
117)	CKRM	980	10/5
118)	CKBW	1000	10
119)	CFRB	°1010	50
120)	CFGP	1050	10d
121)	CHUM	1050	50
122)	CJIC	1050	10/2.5
123)	CKSB	1050	10
124)	CJNB	1050	10
125)	CJRP	1060	10
126)	CFCN	°1060	50
127)	CJLR	1060	10
128)	CHOK	1070	10
129)	CFAX	1070	10
130)	CKSA	1080	10
131)	CHEC	1090	5
132)	CHRS	1090	10

	Call	kHz	kW
133)	CHQT	1110	10
134)	CFML	1110	1
135)	CKWX	°1130	50
136)	CKXL	1140	10
137)	CHSJ	1150	10/5
138)	CJRC	1150	10/5
139)	CKOC	1150	10
140)	CJTR	1150	10/1
141)	CKX	1150	10/1
142)	CFNS	1170	1
143)	CFSL	1190	10/5
144)	CJOC	1220	10/5
145)	CKDA	1220	25
146)	CKCW	1220	10
147)	CHSC	1220	1/0.5
148)	CJRL	1220	1
149)	CJSS	1220	1
150)	CKSM	1220	1
151)	CFBV	1230	1/0.25
152)	CFPA	1230	1/0.25
153)	CHVD	1230	1/0.25
154)	CKLD	1230	1/0.25
155)	CKMP	1230	1/0.25
156)	CKTK	1230	1/0.25
157)	CJSA	1230	1/0.25
158)	CJTT	1230	1/0.25
159)	CFLM	1240	1/0.25
160)	CFVR	1240	1/0.25
161)	CJAV	1240	1/0.25
162)	CJWA	1240	1/0.25
163)	CKOO	1240	1/0.25
164)	CKBL	1250	10/5
165)	CKJD	1250	1
166)	CKOM	1250	10
167)	CHSM	1250	10
168)	CHWO	1250	1/0.5
169)	CFRN	1260	50
170)	CHAT	1270	10
171)	CHWK	1270	10
172)	CJCB	°1270	10
173)	CFGT	1270	1
174)	CHIQ	1280	10/5
175)	CJMS	1280	50
176)	CKCV	1280	10/5
177)	CHQB	1280	1
143)	CJSL	1280	1
178)	CHAM	1280	10/5
167)	CFAM	1290	10/5
180)	CJOE	1290	10
181)	CJME	1300	1
182)	CFGM	1310	10/2.5
183)	CHGB	1310	5
184)	CKOY	1310	50
185)	CHQM	1320	50
186)	CKKW	1320	1
187)	CJSO	1320	10/5
188)	CKEC	1320	5
189)	CKKR	1330	10
190)	CFSL	1190	10/5d
191)	CKGN	1340	1/0.25
192)	CKOX	1340	1/0.25
193)	CKCR	1340	1/0.25
194)	CKLB	1350	10/5
195)	CHOV	1350	1
196)	CJDC	1350	1
197)	CJLM	1350	1
198)	CKEN	1350	1
199)	CKBC	1360	10
200)	CFLV	1370	10/5
201)	CKLC	1380	10/5
202)	CKPC	1380	10
203)	CFDA	1380	1
204)	CHOO	1390	10
205)	CKLN	1390	1
206)	CKKC	1390	1
207)	CJFP	1400	10/0.25
208)	CKSW	1400	1/0.25
209)	CFMB	1410	10
210)	CFUN	1410	50
211)	CKSL	1410	10
212)	CKVN	1410	50
213)	CJVR	1420	10
214)	CJMT	1420	1
215)	CKPT	1420	5
216)	CKFH	1430	10
217)	CKPN	1440	10
218)	CFCP	1440	1
219)	CFJR	1450	1/0.25
220)	CHEF	1450	1/0.25
221)	CHUC	1450	1
222)	CJBM	1450	1/0.25
223)	CJOY	1460	10/5
224)	CKRB	1460	10/5
225)	CFOX	1470	10/5
226)	CJQM	1470	5
227)	CFRW	1470	5
228)	CHOW	1470	1/0.5
229)	CHRD	1480	10
230)	CFWB	1490	1/0.25
231)	CHYM	1490	10/5
232)	CJSN	1490	1/0.25
233)	CKAD	1490	1/0.25
234)	CKBM	1490	1/0.25
235)	CKAY	1500	1
236)	CJRS	1510	10
237)	CKOT	1510	1
238)	CHIN	1540	50
239)	CFOR	1570	10/1
240)	CHUB	1570	10
241)	CKLM	1570	50
242)	CJRN	1600	10

Short Waves:

	Call	kHz	m	kW	
29)	CFCX	6005	49.96	0.5	Canadian Marconi, Montreal: 24 h
172)	CJCX	6010	49.92	1	Cape Breton Broadc, Sydney: 09.00-05.00
126)	CFVP	6030	49.75	0.1	The Voice of the Prairies, Calgary: 24 h
119)	CFRX	6070	49.42	1	Standard Broadc. Corpo, Toronto: 24 h
135)	CFKX	6080	49.34	0.01	R.CKWX, Vancouver
109)	CHNX	6130	48.94	0.5	Maritime Broadc. Co, Halifax: 24 h

Medium Waves:

1) **R. Atlantic Ltd**, 125 Hanwell Rd, Fredericton, NB. L.P: Dir. Gen: D. M. Neill. St. Mgr: J. T. H. Fenety. Dir. Tec: G. D. Love. D.Prgr: 24 h. N: On the h and half h. V. by QSL-card.

2) **R. Trois Rivières, Inc**, 3550 Royal Blvd, Trois Rivières, Que. L.P: St. Mgr: M. Danserou. Dir. Tec: O. Lefebre. D.Prgr. in French: 11.00-08.00 (Sat 09.00). N: 5 min's before the h. V. by QSL-card.

3) **R. St. CKPG Ltd**, 1220 6th Ave, Prince George, B.C. L.P: Dir. Gen: R. T. Harkins. Dir. Tec: D. Alendal. D.Prgr: 14.00-09.00. N: Every half h. V. by letter. Recordings accepted.

4) **The Sudbury Broadc. Co. Ltd**, 166 rue Elm, Sudbury, Ont.

5) **CHTK Radio Ltd**, Prince Rupert, B.C.

6) **Kirkland Lake Broadc. Ltd**, Woolworth Bldg, Governm. Rd. West, Kirkland Lake, Ont.

7) **R. Sept-Iles Inc**, 700 Blvd. Laure, Sept-Iles, Que. D.Prgr: W 11.00-07.00. N: 17.00, 23.00+ headlines on the h. V. by letter. Rp. Recordings accepted.

8) **Grey and Bruce Broadc. Co. Ltd**, 270 Ninth Street East, Owen Sound, Ont.

9) **The Colonial Broadc. System Ltd**, Marystown, Nfld.

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10) **Northern Lights Broadc. Ltd,** Box 3450, Fort St. John, BC. **L.P:** St. Mgr: M. A. Stevenson. Dir. Tec: B. Guy. **D.Prgr:** 24 hrs. **N:** On the h. V. by letter. Rp. Recordings accepted.
11) **Edmundston R. Ltd,** 99 Canada Rd, Edmundston, N.B.
12) **Humber Valley Broadc. Co. Ltd,** Corner Brook, Nfld.
13) **Cariboo Broadc's Ltd,** Box 3000, Quesnel, B.C. **L.P:** Gen. Mgr: D. Reid. Dir. Tec: S. Davis. **D.Prgr:** 14.00-07.05. **N:** On the h. V. by letter. Recordings accepted.
14) **East Kootenay Broadc. Co. Ltd,** 28-8th Ave So, Cranbrook, B.C. **L.P:** Pres: L. J. Hoole. **D.Prgr:** 12.45-07.00. **N:** On the h. V. by letter. Rp.
15) **CFRA Broadc. Ltd,** 150 Isabella Str, Ottawa, Ont. **L.P:** Gen. Mgr: T. Kielty. Chief Eng: G. Roach. **D.Prgr:** 24 h. **N:** Every h and half h. V. by QSL-card. Recordings accepted.
16) **R. Côte-Nord Inc,** Blvd. Blanche 15, Hautérive, Que. **L.P:** St. Mgr: H. Desjardins. Dir. Tec: G. de Varennes. **D.Prgr:** 10.30-04.30 (French). **N:** On the h. V. by letter.
17) **Atlantic Broadc. Ltd,** St. Ninian St, Antigonish, NS. **L.P:** St. Mgr: J. C. Nunn. **D.Prgr:** 09.00-03.15. **N:** 09.00, 11.00, 12.00, 13.00, 14.00, 15.15, 16.00, 18.00, 19.00, 20.00, 22.00, 01.00, 03.15. V. by letter.
18) **H. F. Dougall Co. Ltd,** 87 No. Hill St, Port Arthur, Ont. **D.Prgr:** 12.52-08.02. **N. in English:** 14.50, 19.00, 21.50, 00.20, 01.30, 05.00. V. by letter.
19) **Hall Gray Broadc. Co. Ltd,** Hudson St, Salmon Arm, BC.
20) **University of Alberta,** 10526 Jasper Ave, Edmonton 14 Alta. **D.Prgr:** 13.00-09.00. **N:** 14.50, 19.00, 21.30, 00.20, 01.30, 05.00. V. by letter. Rp.
21) **Moffat Broadc. Ltd,** 432 Main St, Winnipeg, Man. **Te:** 943-1531. **L.P:** Dir.Gen: R.L. Moffat.Dir. Tec: A. Malowanchuk. **D.Prgr:** 24 h. **N:** On the h and half h. V. by letter. Recordings accepted.
22) **Kapuskasing Broadc. Co. Ltd,** 24 Byng Ave, Kapuskasing. **Te:** (705)335-2379. **L.P:** St. Mgr: R. E. Robinson. Dir. Tec: O. Wilcox. **D.Prgr:** 14.00-09.00. **N:** On the h. V. by letter. Recordings accepted.
23) See 19).
24) **Colonial Broadc. System Ltd,** P.O. Box 4590, St. John's, Nfld. **L.P:** Gen. Mgr: W. Williamson. Dir. Tec: W. B. Williams. **D.Prgr:** 08.58-03.30. V. by letter.
25) **Shoreacres Broadc.Co. Ltd,** 247 Davonport Rd, Toronto 5, Ont. **D.Prgr:** 24 h. V. by letter.
26) **Artic Radio Corpo Ltd,** 75 Callinan St, Flin Flon, Man.
27) **Skeena Broadc's Ltd,** Terrace, B.C.
28) **R. Saguenay Ltée,** 175 Sir Wilfrid Laurier St, Jonquière, Que.
29) **Canadian Marconi Co,** 405 Ogilvy Ave, Montreal 15, Quc. **L.P:** St. Mgr: W. Machney. Dir. Tec: J. Thompson. Operations Mgr: G. Bowden. **D.Prgr:** 24 hrs. **N:** On the h. **Ann:** "Marconi, Radio CFCF and shortwave CFCX". V. by QSL-card. Recordings accepted. Tapes are not returned.
30) **Northern Broadc. Ltd,** Callander, Ont.
31) **A. A. Murphy & Sons Ltd,** 216 First Ave, No, Saskatoon, Sask. **L.P:** Gen. Mgr: V. Dallin. Chief Eng: J. van der Tuuk. V. by QSL-card.
32) **CJOR Ltd,** 846 Howe St, Vancouver, B.C. **L.P:** St. Mgr: J. Donaldson. **D.Prgr:** 14.00-10.00. **N:** On the h.
33) **Colchester Broadc. Co. Ltd,** 840 Prince St, Truro, N.S.
34) **La Cie Gaspésienne de Radiodiff. Ltée,** Rue Principale et Boul. Perron, New Carlisle, Que.
35) **Niagara District Broadc. Co. Ltd,** P.O. Box 610, St. Catharines, Ont. **Te:** 684-1174. **L.P:** Pres: W. B. C. Burgoyne. St. Mgr: Miss M. C. Burgoyne. Dir. Tec: L. Holleran. **D.Prgr:N:** Every h and every 30 min's at 11.00-14.00. **Ann:** "Radio 610 CKTB St. Catherines, Ontario; The Voice of the City". V. by QSL-card and/or letter.
36) **Peace River Broadc. Corpo,** Box 1150, Peace River. **L.P:** Gen. Mgr: C. Cambridge. **D.Prgr:** 13.00-07.00. V. by QSL-card. Recordings accepted. Rp.
37) **Mystery Lake Broadc. Ltd,** Thompson, Man.
38) **Kootenay Broadc. Co. Ltd,** 1300 Cedar St, Trail, B.C.
39) **Radio C.K.M.L. Inc,** 267 Blvd. Paquette, Mont Laurier, Que.
40) **J. Conrad Lavigne, Ltd,** P.O. Box 620, Timmins, Ont. **L.P:** Dir. Gen: J. C. Lavigne. St. Mgr: P. Stein. Dir. Tec: F. Palmer. **D.Prgr:** 11.00-05.00. V. by QSL-card.
41) **Transcanada Communications Ltd,** P.O. Box 6200, Regina, Sask. **L.P:** Dir. Gen: M. Sifon. St. Mgr: E. Miles. Dir. Tec: H. Dean. **D.Prgr:** 24 h. **N:** Every h on the h. V. by QSL-card.
42) **Colonial Broadc. System Ltd,** P.O. Box 430, Grand Falls, Nfld. **Te:** 489-2192. **L.P:** St. Mgr: J. Murdoch. Dir. Tec: H. G. Feltham. **D.Prgr:** 09.30-05.30. **N:** On the h and half h. **Ann:** "This is CBC, Colonial Broadcasting System CKCM". V. by letter. (Belongs to 24.)
43) **Islands R. Broadc. Co. Ltd,** 85 Kent St, Charlottetown, PEI. **L.P:** St. Mgr: R. F. Large. Dir. Tec.: G. M. Tait. **D.Prgr:** 24 h. V. by letter. Rp.
44) **Great Lakes Broadc. System,** 21 Keil Drive, Chatham, Ont. **L.P:** St. Mgr: N. Haines. Dir. Tec: G. Brooks. **D.Prgr:** 24 hrs. **N:** Every h on the h. V. by QSL-card. Recordings accepted.
45) **R. St. CHED Ltd,** 10006-107th St, Edmonton, Alta.
46) **R. Television Sherbrooke,** 3330 King St. W, Sherbrooke, Que. **Te:** 569-9331. **L.P:** St. Mgr: H. Delorme. Dir. Tec: R. Thiébaut. **D.Prgr: N:** Every half h. V. by letter.
47) **Rideau Broadc. Ltd,** Box 630, Smith Falls, Ont. **L.P:** Gen. Mgr: J. W. Pollie. Dir. Tec: R. A. Easton. **D.Prgr:** 24 h. **N:** On the h. V. by QSL-card. **FM:** 101.1MHz 47.3kW.
48) **Transcanada Communications Ltd,** 300 Carlton St, Winnipeg, Man. **D.Prgr:** 24 h. V. by QSL-card and letter.
49) **Muskoka-Parrysound Broadc. Ltd,** Huntsville, Ont.
50) **Okanagan Broadc's Ltd,** 1491 Pendozi St, Kelowna, B.C.
51) **R. Edmonton Ltd,** 10012-109è Rue, Edmonton, Alta. **L.P:** St. Mgr: B. J. Gagnon. Dir. Tec: A. Rouleau. **D.Prgr:** 13.50-07.05 in French. **N:** 13.55, 14.28, 15.00, 15.28, 16.00, 17.00, 18.00, 19.15, 20.28, 21.00, 22.00, 23.00, 00.00, 00.30, 00.55.
52) **Newfoundland Broadc. Co,** Prince of Wales St, St. Johns, Nfld. **L.P:** Chmn of the Board: G. Stirling. Pres. & Gen. Mgr: C. Jamieson. **D.Prgr:** 24 h. **N:** 11.30, 16.45, 21.30, 02.00. V. by QSL-card. (CJCN = Grand Falls; CJOK = Grand Bank.)
53) **R. OB Ltd,** 930 Portage Ave, Winnipeg 10, Man. **Te:** 786-2471. **L.P:** St. Mgr: R. M. MacLeman. Dir. Tec: N. J. East. **D.Prgr:** 24 h. **N:** On the h and half h. 12.00-06.00: on the h 06.00-12.00. **Ann:** "This is OB-68 in Winnipeg". V. by letter.
54) **Timmins Broadc. Ltd,** Thomson Bldg, Timmins, Ont.
55) **Rogers Broadc. Ltd,** 13 Adelaide St, East, Toronto, Ont. **L.P:** St. Mgr: V. Bjerre. Dir. Tec: R. Turnpenny. **D.Prgr:** 24 h. **N:** On the h. V. by letter.
56) **Souwesto Broadc's Ltd,** 133 Curtis St, St. Thomas, Ont.
57) **R. Gravelbourg Ltée,** Edifice Villeneuve, Main St, Gravelbourg, Sask. **D.Prgr. in French:** 13.00-24.00.
58) **R. Temiscamingue Inc,** Rue-Saint Anne, Ville-Marie, Que.
59) **Sun Parlor Broadc's Ltd,** Box 70, Leamington, Ont. **D.Prgr:** 24 h in English (& French, German, Italian, Hungarian). V. by QSL-card.
60) **R. St. CKAC Ltd,** 1400 Metcalfe St, Montreal, Que. **Te:** 874-7373. **L.P:** Gen. Mgr: J. M. Goulet. Dir. Tec: J. A. Lange. **D.Prgr:** 24 hrs in French. **N:** On the h. V. by letter.
61) **Dauphin Broadc. Co. Ltd,** 3rd Ave, NE, Dauphin, Man. **D.Prgr:** 24 h.
62) **Moffat Broadc. Ltd,** 1006 Richards St, Vancouver, **B.C. D.Prgr:** 14.00-08.00. **N:** On the h. V. by letter.
63) **Algonquin Radio-TV Co. Ltd,** Blind River, Ont.
64) **R. Dartmouth Ltd,** 66 Ochterluney St, Dartmouth, N.S. **L.P:** Gen. Mgr: C. Flemming. Dir. Tec: J. Hutchison. **D.Prgr:** 10.00-05.10. **N:** On the h. V. by letter.
65) **Camrose Broadc. Co. Ltd,** Box 1600, Camrose, Alta. **L.P:** St. Mgr: W. H. Holte. Dir. Tec: L. Olson. **D.Prgr:** 24 h. **N:** Every h on the h. V. by QSL-card. Recordings accepted.
66) **Cambrian Broadc. Ltd,** 336 Ash St, Sudbury, Ont. **D.Prgr:** 24 h. **N:** Every half h & 13.00, 17.15.
67) **CHIC Radio Ltd,** 2 Ellen St, Brampton, Ont.
68) **Miramichi Broadc. Co. Ltd,** P.O. Box 1300, Newcastle, NB. **Te:** (506)622-3311. **L.P:** St. Mgr: R. J. Wallace. **D.Prgr:** 10.30-04.00.
69) **CHAB Ltd, Moffat Broadc. Ltd,** 116 Main St, North, Moose Jaw, Sask. **D.Prgr:** 12.00-07.00.
70) **CHRC Ltée,** 1143 rue St. Jean, Quebec 4, Que. **L.P:** St. Mgr: A. Pelletier. Dir. Tec: A. Nadeau. **D.Prgr:** 11.00-07.00. **N:** 13.00, 18.00, 22.55, 03.30 = headlines 5 min's before the h. V. by letter and QSL-card.
71) **CJAD Ltd,** 1407 Mountain St, Montreal, Que. **L.P:** St. Mgr: H. T. McCurdy. Dir. Tec: E. Mott. Dir. Prgr's: Wm. Roberts. **D.Prgr:** 24 h. **N:** On the h and 11.30, 12.30, 13.30, 17.30. V. by QSL-card. Recordings accepted.
72) **Lakehead Broadc. Co. Ltd,** 213 Myles St, Fort William.
73) **Okanagan Radio Ltd,** P.O. Box 338, Penticton, B.C. **L.P:** St. Mgr: R. Robinson. Dir. Tec: H. McRae. **D.Prgr:** 14.00-09.00 (Sun 15.00-08.00). **N:** Every h on the h. V. by QSL-card. Recordings accepted.
74) **Western Ontario Broadc. Co. Ltd,** 825 Riverside Dr, Windsor, Ont.
75) **Border Broadc. Ltd,** 240½ Scott St, Fort Frances, Ont.
76) **Quinte Broadc. Co. Ltd,** 45 Bridge St, East, Belleville, Ont.
77) **Wesley United Church R. Board,** P.O. Box 1567, St. John's, Nfld. **L.P:** St. Mgr: E. Hudson. Dir. Tec: R. C. Peddle. **D.Prgr:** Mon-Thurs 23.00-02.00; Fri-Sun 13.30-16.45, 21.30-01.30. V. by QSL-card. Recordings accepted.
78) **CHQR Radio,** 1030-4th St, Calgary, Alta. **L.P:** Pres. & Gen. Mgr: T. Soskin. **D.Prgr:** 24 h. V. by letter.
79) **Central Alberta Broadc. Co (1961) Ltd,** 5407 Gaetz Ave, Red Deer, Alta. **L.P:** Pres. & Gen. Mgr: H. L. Flock. St. Mgr: L. Thiessen. **D.Prgr:** 13.00-08.00. **N:** 15.00, 19.30, 01.30, 05.00. V. by QSL-card. Recordings accepted.
80) **R. Futura Ltée,** 211 Gordon Ave, Verdun, Que. **Te:** (514)766-2311. **L.P:** Dir. Gen: J. Tietolman. Dir. Tec: M. Rousseau. **D.Prgr. in French:** 24 h. **N:** 5 min's before each h. On 96.9 MHz (307kW) in English & French. V. by QSL-card. Recordings accepted.
81) **City and Country Radio Ltd,** Box 850, Langley, B.C. **Te:** (605)534-5341. **L.P:** Pres. & Gen. Mgr: J. Chesney. **D.Prgr:** 24 h. V. by letter. Rp. Recordings accepted.

82) **Maple Leaf Broadc. Co. Ltd,** 848 Main St, East, Hamilton, Ont. **D.Prgr:** 24 h. **N:** 12.45, 17.30, 23.00, 04.10. V. by QSL-card. Recordings accepted.
83) **The Sudbury Broadc. Co. Ltd,** Box 700, Sudbury, Ont. **L.P:** St. Mgr: P. Scott. Dir. Tec: H. Albert. **D.Prgr:** 24 hrs exc. Mon 05.00-11.00. **N:** On the h (and half h in daytime).
84) **Lower St. Lawrence R. Inc,** 13 St. Jean Baptiste, Rimouski. **D.Prgr:** 11.00-05.00. **N:** On the h. V. by letter. Recordings accepted.
85) **Island Broadc. Co. Ltd,** P.O. Box 940, Victoria, B.C. **L.P:** Gen. Mgr: K. C. Goddard. St. Mgr: W. Guid. Dir. Tec: M. Doyle. **D.Prgr:** 24 h. **N:** Every h on the h and 14.30, 15.30, 16.30, 20.30, 00.35, 01.05,01.35. V. by letter. Recordings accepted.
86) **Central Broadc. Co. Ltd,** CKBI Bldg, 10th St, Prince Albert, Sask.
87) **R. Nord Inc,** Angle 3è Avenue et 3è rue, Val d'Or, Que.
88) **Tantramar Broadc. Ltd,** 32 Church St, Amherst, N.S.
89) **Lake of the Woods Broadc. Ltd,** 7 King St, Dryden, Ont.
90) **R. Laurentides Inc,** P.O. Box 900, Saint-Jerome, Que. **L.P:** Pres. & Gen. Mgr: J. Lalonde. Gen. Mgr: J. R. Fox. Dir. Tec: B. Atkin. **D.Prgr:** (French): 11.55-04.55. **N:** 5 min's before the h. V. by letter. Recordings accepted.
91) **CKTS Radio,** 3330 King St. West, Sherbrooke (belongs to 46).
92) **Twin Cities Radio Ltd,** 460 Pemberton Terrace, Kamloops, B.C. **L.P:** St. Mgr: I. G. Clarke. Dir. Tec: K. Reichennek. **D.Prgr:** 14.00-08.00. **N:** 16.00, 20.10, 02.00. V. by letter. Recordings accepted.
93) **R. Station CJDV,** 327nd St. W, Drumheller, Alta. **L.P:** Gen. Mgr: T. Mayer. Dir. Tec: J. Bruin. **D.Prgr:** 24 h. **N:** On the h.
94) **R. Roberval Incorporée,** 763 Blvd. St. Joseph, Roberval, Que. Te: (418)275-1831. **L.P:** St. Mgr: B. Levesque. **D.Prgr in French:** 11.00-05.00. **N:** 12.00, 14.00, 15.00, 16.00, 17.30, 18.00, 19.30, 20.30, 21.00, 23.00, 03.30, 05.00. V. by letter. Recordings accepted.
95) **Greg-May Broadc. Ltd,** 249 Kent Street West, Lindsay, Ont.
96) **R.CJCH 920 Ltd,** 2885 Robie St, Halifax, N.S. Te: 455-0181. **L.P:** Gen. Mgr: W. Ozard. Dir. Tec: R. M. McCausland. **D.Prgr:** 24 h. **N:** 5 min's before the h and 10.25, 11.25, 12.25, 21.25. V. by letter. Recordings accepted.
97) **Algonquin R.TV Co. Ltd,** 254 Queen St. East, Sault St. Marie, Ont. **L.P:** Gen. Mgr: C. P. Greo. Dir. Tec: R. G. Rylatt. **D.Prgr:** 24 h.
98) **Portage-Delta Broadc. Co. Ltd,** 1500 Sask Ave W, Portage la Prairie, Man. **L.P:** Pres. & Gen. Mgr: R. D. Hughes. Sales Dir: J. E. Follett. **D.Prgr in English** (Ukrainian & German): 13.00-07.00. **N:** 15.00, 19.30, 01.00. V. by letter. Rp.
99) **Carleton-Victoria Broadc. Co. Ltd,** Ross Bldg, Main St, Woodstock, N.B.
100) **R. St. CKNX Ltd,** Corner of Carling Terrace and John St, Wingham, Ont.
101) **Fundy Broadc. Co. Ltd,** 68 Carleton St, St. John, N.B. **L.P:** Dir. Gen: J. Turnbull. Gen. Mgr: R. Lockhart. Dir. Tec: C. Weeks. **D.Prgr:** 10.00-05.00 (Sun 11.00-04.00). Re. not wanted.
102) **Edmonton Broadc. Co. Ltd,** Birks Bldg, 10123-104th St, Edmonton, Alta. Te: (403)424-4131. **L.P:** Pres. & Gen. Mgr: C. A. Perry. **D.Prgr:** 24 h. **N:** 14.00, 15.00, 19.15, 01.00. V. by letter. Recordings accepted.
103) **R. St. CJGX,** Tower Bldg, Yorktown, Sask. **L.P:** St. Mgr: G. G. Gallagher. Dir. Tec: H. Kerr. **D.Prgr:** 24 h. V. by QSL-card. Recordings accepted.
104) **Interior Broadc. Ltd,** 3315 B. Barnard Ave, Vernon, B.C.
105) **Barrie Broadc. Co. Ltd,** Box 519, Barrie, Ont. **L.P:** Gen. Mgr: W. Bjorgan. Operations Dir: D. Lennox. Dir. Tec: B. Verwey. **D.Prgr:** 11.00-05.00. V. by letter. Rp. **F.PL:** 93.1MHz 100kW.
106) **Restigouche Broadc. Co. Ltd,** P.O. Box 340, Campbellton, N.B. **L.P:** St. Mgr: W. J. Freeman. Man. Dir: P. Athier. **D.Prgr:** 10.30-04.00. V. Reports not wanted.
107) **CHER Broadc. Ltd,** P.O. Box 950, Sydney, N.S. Te: (902)539-2900. **L.P:** St. Mgr. & Dir. Tec: R. D. Neima. **D.Prgr:** 24 h. **N:** Hourly 5 min's to the h. V. by letter. Recordings accepted.
108) **Calgary Broadc. Co. Ltd,** 1301-17th Ave, S. W, Calgary 3, Alta. **L.P:** St. Mgr: J. E. Ansell. Sales Mgr: G. N. Walker. **D.Prgr:** 24 h. **N:** Every 30 min's. V. by QSL-card. Recordings accepted. Rp.
109) **Maritime Broadc. Co. Ltd,** P.O. Box 400, Halifax, N.S. Te: (902)422-1651. **L.P:** Gen. Mgr: F. W. Arenburg. Dir. Tec: R. H. Parker. **D.Prgr:** 24 h. **N:** 11.30, 16.30, 21.30, 02.30. **Ann:** "This is CHNX 6130kHz in the 49 mb. broadc. from Halifax, Nova Scotia". V. by QSL-card. Rp. Recordings accepted. **FM:** 96.1MHz 19.5kW.
110) **Frontenac Broadc. Co. Ltd,** 170 Queen St, Kingston, Ont. **L.P:** St. Mgr: R. Hofstetter. **D.Prgr:** 10.30-06.30. V. by letter. Recordings accepted.
111) **La Compagnie de Radiodiff. CKCH de Hull Ltée,** 72 Laval St, Hull, Que.
112) **Yellowhead Broadc. Ltd,** Edson Motor Hotel, Edson, Alta.
113) **CFPL Radio,** P.O. Box 2580, London, Ont. **L.P:** Gen. Mgr: M. T. Brown. St. Mgr: C. N. Knight. Dir. Tec: G. A. Robitaille. **D.Prgr:** 24 h. **N:** On the h (95.9MHz = London's Fine Music Station). V. by letter.
114) **Kawartha Broadc. Co. Ltd,** Box 659, Peterborough, Ont. **L.P:** St. Mgr: W. Rewegan. Chief Eng: A. E. Crump. **D.Prgr:** 11.00-06.15. **N:** On the h. V. by QSL-card. Rp.
115) **Maisonneuve Broadc. Corp. Ltd,** 1445 Drummond St, Montreal, Que. **L.P:** Dir. Gen: G. Stirling. St. Mgr: D. Wall. Dir. Tec: C. Jarette. **D.Prgr:** 24 h. **N:** On the h. V. by QSL-card or letter.
116) **R.LW Ltd,** 8th Ave & McBride Blvd, New Westminster, B.C.
117) **CKRM Radio,** Box 9800, Regina, Sask. **L.P:** Gen. Mgr: J. T. Miller. **D.Prgr:** 24 h. **N:** On the h and half h. **Ann:** "CKRM 980 Regina". V. by QSL-card. Rp. appreciated but not required. Recordings not wanted; written reports preferred.
118) **Acadia Broadc. Corpo. Ltd,** 215 Dominion St, Bridgewater, N.S. **L.P:** Gen. Mgr: J. F. Hirtle. St. Mgr: A. MacLeod. Dir. Tec: D. B. Hirtle. **D.Prgr:** 09.58 (Sun 10.58)-04.15. V. by QSL-card. Recordings accepted. Rp.
119) **CFRB Ltd,** 2 St. Clair Ave. West, Toronto 7, Ont. **Te:** 924-5711. **L.P:** St. Mgr: J. Dawson. Dir. Tec: C. Eastwood. **D.Prgr:** 24 h. **N:** Every half h. V. by QSL-card. **FM:** 99.9MHz 200kW (ERP).
120) **Northern Broadc. Corpo. Ltd,** 10008-103rd Ave, Grande Prairie, Alta. **L.P:** Dir: C. A. Perry. Dir. Tec: J. de Roaldes. **D.Prgr:** 24 h. **N:** On the h. V. by letter. Recordings accepted.
121) **R.CHUM-1050 Ltd,** 1331 Yonge St, Toronto 7, Ont.
122) **Hyland R.TV Ltd,** 119 East St, Sault Ste. Marie, Ont.
123) **R. Station CKSB,** 607 Langevin St, St. Boniface, Man. **Te:** 247-4843. **L.P:** Dir: R. Couture. Dir. Tec: R. Brodeur. **D.Prgr:** 12.30-06.15 in French. **N:** 12.30, 12.45, 13.00, 13.30, 14.00, 15.00, 15.30, 16.00, 16.30, 17.00, 18.00, 19.00, 19.25, 21.00, 22.00, 22.30, 23.00, 23.00, 00.00, 01.00, 03.30, 05.00, 06.00. V. by letter.
124) **Northwestern Broadc. Co. Ltd,** 1721 Main St, North Battleford, Sask.
125) **R. Mutuelle,** 1700 Berri, Montreal. **D.Prgr. in French:** 24 h. **N:** 13.00, 17.00, 21.30, 22.30, 02.00. V. by QSL-card or letter.
126) **The Voice of the Prairies Ltd,** Broadc. House, Calgary, Alta. Te: (403)249-9101. **L.P:** St. Mgr: R. F. Irvine. Dir. Tec: R. W. Lamb. **D.Prgr:** 24 h. **N:** hourly. **Ann:** "CFCN, The Voice of the Prairies, 1060 Radio". V. by QSL-card. Recordings accepted.
127) **CJLR Inc,** P.O. Box 4200, Quebec, Que. **L.P:** St. Mgr: A. Prevost. Dir. Tec: A. Cautin. **D.Prgr:** 11.00-09.00. **N:** Every 30 min's. V. by letter. Recordings accepted.
128) **Sarnia Broadc. (1964) Ltd,** 148½ N. Front St, Sarnia, Ont. **L.P:** Gen. Mgr: K. E. Monk. Dir. Tec: R. F. Cooke. **D.Prgr:** 11.00-06.00. **N:** 13.00, 23.00. V. by letter. Recordings accepted
129) **CFAX Radio 1070 Ltd,** Victorie, B.C.
130) **Sask-Alta Broadc. Ltd,** 5036-50th St, Lloydminster, Alta.
131) **Southern Alberta Broadc. Ltd,** 410 Mayor Magrath Drive, Lethbridge, Alta. **L.P:** St. Mgr: H. W. Brown. Prgr. Dir: B. MacDonald. **D.Prgr:** 12.00-09.00. **N:** Every h on the h and at 14.30, 15.30, 19.30, 22.30. V. by letter. Reports to Box 1090, Lethbridge.
132) **R. Iberville Ltd,** C.P. 1090, Jacques-Cartier, Que. **L.P:** Gen. Mgr: P. P. Elie. Dir. Tec: E. Pattermann. **D.Prgr's:** 12 hrs (daytime only). **N:** 5 min's before each h. V. by QSL-card or letter. Recordings accepted.
133) **R. St. CHQT Ltd,** 10154-103rd St, Edmonton, Alta. **L.P:** Dir. Gen: L. R. Roskin. **D.Prgr:** 24 h. **N:** On the h 13.00-07.00. V. by letter. Recordings accepted.
134) **CFML Radio (Cornwall) Ltd,** 1308 Pitt St, Cornwall, Ont.
135) **CKWX R. Ltd,** 1275 Burrard St, Vancouver, B.C.
136) **Bow Valley Broadc. Co. Ltd,** 804-16th Ave. SW, Calgary, Alta. **D.Prgr:** 24 h. **N:** On the h. V. by letter. Recordings accepted.
137) **New Brunswick Broadc. Co. Ltd,** Broadc. House, 335 Union St, Saint John, N.B. **L.P:** Gen. Mgr: G. Cromwell. St. Mgr: W. A. Stewart. **D.Prgr:** 24 h exc. Mon 04.00-10.00. V. by QSL-card.
138) **CJRC Radio Capitale Ltée,** 78 Sparks St, Ottawa, Ont.
139) **Wentworth R. Broadc. Co. Ltd,** 73 Garfield St, So, Hamtilon, Ont. **L.P:** Dir, Gen: C. Sifton. Vice Pres. & Gen. Mgr: D. R. Dawson. Dir. Tec: L. Horton. **D.Prgr:** 24 h. **N:** Every h on the h and 12.30, 13.30, 14.30, 18.30, 00.30. V. by letter.
140) **CKTR (1958) Ltée,** Place Royale, Trois Rivières, Que. **L.P:** St. Mgr: C. Couture. Dir. Tec: H. Lapointe. V. by QSL-card and letter. Rp.
141) **Western Manitoba Broadc. Ltd,** 2490 Victoria Ave, Brandon, Man.
142) **R. Prairies-Nord Ltée,** 1426 Alexandre St, Saskatoon, Sask. **D.Prgr:** 13.30-07.15. **N:** 15.00, 19.00, 01.00.

143) **Soo Line Broadc. Co. Ltd,** Box 340, Weyburn, Sask. **L.P:** Gen. Mgr: J. T. Laing. (CJSL = Estevan).
144) **Lethbridge Broadc. Ltd,** Box 820, Lethbridge, Alta. **Te:** 327-3161. **L.P:** St. Mgr: J. McColl. Dir. Tec: B. McDonald. **D.Prgr:** 24 h. **N:** On the h. V. by letter. Recordings accepted.
145) **Capital Broadc. System Ltd,** P.O. Box 967, Victoria, B.C. **L.P:** St. Mgr: K. G. MacKenzie. Dir. Tec: F. Cole. **D.Prgr:** 24 h. **N:** On the h and half h. V. by letter. Rp. Recordings not wanted.
146) **Moncton Broadc. Ltd,** P.O. Box 1220, Moncton, N.B. **L.P:** Man. Dir: A. Lynds. Dir. Tec: R. Oke. **D.Prgr:** W 10.00-05.00 (Sat 06.00), Sun 12.00-04.15. V. by QSL-card. Recordings accepted.
147) **R. St. CHSC Ltd,** 36 Queenstown St, St. Catharines, Ont. **L.P:** Pres: R. E. Remond. Dir. Tec: R. Brundle. **FM:** 105.7 MHz 50kW.
148) **Lake of the Woods Broadc. Ltd,** Box 580, Dryden, Ont. **D.Prgr:** 10.00-04.00.
149) **Tri-Co Broadc. Ltd,** 237 Water St, East, Cornwall, Ont.
150) **The Shawinigan Falls Broadc. Co,** Edifice Hotel de Ville, Shawinigan, Que.
151) **CFBV Ltd,** P.O. Box 335, Smithers, B.C. **Te:** (604)847-2521. **L.P:** Pres. & Gen. Mgr: R. A. East. **D.Prgr:** 14.30 (Sun 15.30)-07.30 (Sat 08.00). **N:** 15.00, 15.30, 16.00, 16.30, 17.00, 18.30, 20.10, 23.00, 24.00, 01.00, 01.30, 02.00, 03.00, 06.00, 07.00.
152) **Ralph H. Parker Ltd,** 230N Cumberland St, Port Arthur, Ont.
153) **R. Marie-Chapdelaine Inc,** 540 Walberg Blvd, Dolbeau, Que.
154) **R. Mégantic Limitée,** 327 rue l'Abbé, Thetford Mines, Que.
155) **Midland-Penetang Broadc. Ltd,** Midland, Ont.
156) **Skeena Broadc. Ltd,** Kitimat, B.C.
157) **R. Sainte-Agathe Inc,** 3est, rue Principale, Ste. Agathe des Monts, Que.
158) **Kirkland Lake Broadc. Ltd,** Kirkland Lake, Ont.
159) **R. La Tuque Ltd,** 529 rue St. Louis, La Tuque, Que.
160) **Fraser Valley Broadc. Ltd,** 2509 Pauline St, Abbotsford, B.C. **L.P:** Man. Dir: D. Borkinan. **D.Prgr:** 14.00-08.00. **N:** 16.00, 20.30, 02.00, 06.00. V. by letter. Recordings accepted.
161) **CJAV Ltd,** 205-3rd Ave, South, Port Alberni, B.C.
162) **Hyland Radio-TV Ltd,** 119 East St, Sault Ste. Marie, Ont.
163) **Okanagan Radio Ltd,** Main St, Osoyoos, B.C.
164) **La Compagnie de Radiodiff. de Matane Ltée,** 155 Rue St. Sacrament, Matane, Que. **Te:** 562-0290. **L.P:** Dir. Gen: R. Lapointe. Dir. Tec: Y. Fortier. **D.Prgr (French):** 11.00-07.00. **N:** 5 min's before the h. V. by QSL-card. Rp. Recordings accepted.
165) **Dancy Broadc. Ltd,** 546 Christina St, Samia, Ont.
166) **Saskatoon Community Broadc. Co. Ltd,** Empire Hotel, Saskatoon, Sask.
167) **Southern Manitoba Broadc. Co,** Box 950, Altona, Man. **Te:** (204)324-6464. **L.P:** Dir. Gen: W. E. Kroeker. Gen. Mgr: E. Hildebrand. Dir. Tec: J. Pauls. **D. Prgr:** 24 h. **N:** On the h and at 12.30, 13.30, 14.30, 18.30, 23.30, 00.30. V. by QSL-card. Rp. (CHSM = Steinbach).
168) **CHWO R. Ltd,** 490 Wyecroft Road, Oakville, Ont. **D.Prgr:** 24 h. **N:** 05.01, 07.00, 08.00, 09.00. 10.00, 11.00, 12.00, 12.30, 13.00, 13.30, 14.00, 15.00, 16.00, 17.15, 22.00, 22.30, 23.00, 23.30, 00.00, 01.30, 03.30. V. by letter.
169) **The Sunwapta Broadc. Co. Ltd,** Box 5030, Postal Station E, Edmonton, Alta. **L.P:** St. Mgr: T. Coumant. **D.Prgr:** 12.00-08.00. **N:** 15.20, 17.40, 19.00, 01.30, 06.00, 07.30. V. by QSL-card.
170) **Monarch Broadc. Co. Ltd,** Box 880, Medicine Hat, Alta. **D.Prgr:** 24 h. **N:** Every 30 min's. V. by letter. Recordings accepted.
171) **Fraser Valley Broadc. Ltd,** P.O. Box 50, Chiliwack, B.C **L.P:** Pres: M. Maclachlan. **D.Prgr:** 14.00-08.00. V. by letter.
172) **Cape Breton Broadc. Ltd,** R. Bldg, 318 Charlotte St, Sydney, N.S. **Te:** (902)564-5596. **Telex:** 014-4595. **L.P:** Gen. Mgr: N. L. Hathanson. Dir. Tec: A. Vernon. **D.Prgr:** 09.00-05.00. V. by QSL-card.
173) **R. Lac St. Jean Ltée,** 741 Avenue Du Pont, Alma, Que. **L.P:** Gen. Mgr: L. Tremblay. **D.Prgr. in French:** 11.30-06.30. **N:** On the h.
174) **R. St. CHIQ,** Terminal Tower, King St. East, Hamilton, Ont. **D.Prgr:** 24 h.
175) **CJMS R. Montreal Ltd,** 1700 Berri St, Montreal, Que. **L.P:** Gen. Mgr: R. Demers. Dir. Tec: J. Claude Lalanciette. **D.Prgr:** 24 h *in French*. **N:** Every half h. V. by letter.
176) **CKCV (Quebec) Ltd,** 978 St. John St, Quebec, Que. **L.P:** Gen. Mgr: M. Alain. Sales Mgr: E. B. Cardinal. **D.Prgr:** 24 h in French. **N:** 12.55, 17.45, 22.45, 04.45. V. by QSL-card or letter.
177) **Sunshine Coast Broadc. Ltd,** Alberni St, Powell River, B.C.
178) **Rogers Broadc. Ltd,** 140 King St, East, Hamilton, Ont.
179) see 167).
180) **Middlesex Broadc. Ltd,** Hotel London Ltd, 279 Dundas St, London, Ont.
181) **Midwest Broadc. Ltd,** Box 1300, Regina, Sask. **L.P:** Gen. Mgr: R. Hutton. Dir. Tec: D. M. Senft. **D.Prgr:** 24 h. V. by letter. Rp.
182) **CFGM Broadc. Ltd,** 50 Yonge St, North, Richmond Hill, Ont. **L.P:** St. Mgr: J. D. Wright. Dir. Tec: B. Sawyer. **D.Prgr:** 24 h (exc. Mon 06.00-11.00). **N:** 5 min's before the h and at 12.25, 13.25, 22.25, 00.25, 01.25. V. by letter. Recordings accepted.
183) **CHGB Ltée,** 508 4th Ave, La Pocatière, Que. **L.P:** Dir. Gen: G. T. Desjardins. Dir. Tec: M. A. Frève. **D.Prgr.** (French): 11.00-07.00. **N:** Every h on the h. V. by letter. Recordings accepted.
184) **CKOY Ltd,** 635 Richmond Rd, Ottawa, Ont.
185) **Vancouver Broadc. Associates Ltd,** 1134 Burrard St, Vancouver 1, B.C. **L.P:** Pres. & Man. Dir: W. E. Bellman. Dir. Tec: S. Davis. **D.Prgr:** 24 h. **N:** On the h. V. by QSL-card. Rp. Recordings accepted.
186) **Central Ontario Television Ltd,** 864 King St, West, Kitchener, Ont. **L.P:** St. Mgr: W. D. McGregor. Dir. Tec: P. Turchan. **D.Prgr:** 24 h. **N:** On the h. V. by QSL-card. Recordings accepted.
187) **R. Richelieu Ltée,** 72 Rue du Roi, Sorel, Que.
188) **Hector Broadc. Co. Ltd,** 130 Georges St, New Glasgow, N.S. **Te:** (902)752-4200. **L.P:** St. Mgr: D. B. Treeman. Dir. Tec: R. A. Freeman. **D.Prgr:** 10.00-05.00. **N:** On the h and half h. **Ann:** "1320 on your dial, this is CKEC, New Glasgow". V. by QSL-card. Rp. Recordings accepted.
189) **Goose Lake Broadc. Co. Ltd,** Rosetown, Sask.
190) **Soo Line Broadc. Co. Ltd,** Corner of Souris Ave & 3rd St. Weyburn, Sask.
191) **La Cie. de Radiodiff. de Matane Ltée,** Ste. Anne-des-Monts, Que. (Belongs to 164).
192) **Oxford Broadc. Co. Ltd,** 290 Dundas St, Woodstock, Ont.
193) **Hall Gray Broadc. Co. Ltd,** Revelstoke, (belongs to 19),
194) **Lakeland Broadc. Co. Ltd,** 16 Centre St, Oshawa, Ont.
195) **The Ottawa Valley Broadc. Co. Ltd,** 319 Pembroke St, East, Pembroke, Ont. **D.Prgr:** 11.00-05.00. **N:** 13.00, 17.15, 22.00, 04.00. V. by QSL-card. Recordings accepted.
196) **R. Station CJDC Ltd,** 9th St, 2nd Ave, Dawson Creek, B.C.
197) **R. Richelieu Ltée,** 113 St. Paul St, Joliette, Que.
198) **Evangeline Broadc. Co. Ltd,** Radio Centre, Kentville, N.S. **L.P:** Man. Dir: W. A. Bishop. **D.Prgr:** 10.00-04.00.
199) **Bathurst Broadc. Co. Ltd,** 455 Golf St, Bathurst, N.B.
200) **R. Valleyfield Ltd,** P.O. Box 1370, Valleyfield, Que. **L.P:** Gen. Mgr: J. C. Lefebre. Dir. Tec: Y. Allard. **D.Prgr:** (French): W 11.00-05.00 (Sat 06.00), Sun 13.30-05.00. **N:** On the h exc. 17.00, which is replaced by 17.30. V. by letter. Recordings accepted.
201) **St. Lawrence Broadc. Co. Ltd,** 99 Brock St, Kingston, Ont. **L.P:** Mgr: T. D. French. Dir. Tec: A. Aufleger. **D.Prgr:** 10.00-06.00. **N:** On the h to 24.00, 04.00, 06.00. V. by letter. Rp.
202) **The Telephone City Broadc. Ltd,** 571 West St, Brantford, Ont. **Te:** (519)753-2664. **L.P:** Gen. Mgr: R. D. Buchanan. Dir. Tec: J. A. Featherston. **D.Prgrs: N:** 10.30, 11.00, 11.30, 12.00, 12.30, 13.00, 13.30, 14.00, 15.00, 16.00, 17.25, 20.00, 22.00, 22.30, 23.00, 02.00, 04.00, 05.00, 06.00. V. by QSL-card. Recordings accepted. **FM:** 92.1MHz 10.2kW.
203) **R. Victoriaville Ltée,** 55 St. Jean Baptiste St, Victoriaville, Que.
204) **R. CHOO Ltd,** 97 MacMaster Ave, Ajax, Ont.
205) **News Publishing Co. Ltd,** 266 Baker St, Nelson, B.C.
206) **Kokanee Broadc. Ltd,** Box 250, Nelson, B.C. **Te:** (604)352-7277. **L.P:** St. Mgr: D. H. Gloves. Dir. Tec: J. P. Haines. **D.Prgr:** 24 h. **N:** On the h. V. by letter. Recordings accepted.
207) **R. CJEP Ltée,** 1 Christophe Colomb St, Rivière-du-Loup.
208) **Frontier City Broadc. Co. Ltd,** 134 Central Ave, Swift Current, Sask.
209) **Chateau Broadc. Co,** 2015 Drummond St, Montreal 25, Que. **L.P:** Pres. & Gen. Mgr: C. G. Stanzcykowski. Dir. Tec: D. A. Kuhlmann. **D.Prgr:** 24 h in English, French. **N:** Every 30 min. V. by letter.
210) **R. CFUN Ltd,** 1900 W. 4th Ave, Vancouver 9, B.C.
211) **London Broadc. Ltd,** 343 Richmond St, London, Ont. **Te:** 432-4181. **L.P:** St. Mgr: J. F. Funston. Dir. Tec: W. E. Post. **D.Prgr:** 24 h. **N:** On the h. V. by letter. Recordings accepted.
212) **R. St. CKVN Ltd,** 1900 West 4th Ave, Vancouver 9, B.C **Te:** (604)731-9222. **L.P:** Man. Dir: R. Carabine. **D.Prgr:** 24 h. **N:** 14.00, 17.00, 20.00, 21.00, 01.00, 06.30. V. by letter. Recordings accepted.
213) **R. CJVR Ltd,** P.O. Box 1420, Melfort, Sask. **L.P:** St. Mgr: M. J. Chase.
214) **C.J.M.T. Ltée,** 365 rue Racine-East, Chicoutimi, Que. **D.Prgr:** (French): 11.00-07.00. V. by letter. Recordings accepted.

215) **CKPT Radio**, Box 177, Peterborough, Ont. **Te:** (705)742-8844. **L.P:** Gen. Mgr: J. Manol. Dir. Tec: D. Alberts. **D.Prgr:** 24 h. **N:** 12.55, 17.25, 23.55. **V.** by letter (reports to Chief Engineer). Recordings accepted.
216) **Foster Hewitt Broadc. Ltd**, 1 Greenville St, Toronto, Ont. **L.P:** Gen. Mgr: F. W. A. (Bill) Hewitt. St. Mgr: B. Nesbitt. **D.Prgr:** 24 h. **N:** On the h. **V.** by letter. Rp.
217) **Confederation Broadc. (Ottawa) Ltd**, 140 Wellington St, Ottawa, Ont. **L.P:** St. Mgr: J. A. Stewart. **D.Prgr:** 24 h. **V.** by letter. Recordings accepted. Rp. for tapes.
218) **CFCP Radio Ltd**, Courtenay, B.C.
219) **Eastern Ontario Broadc. Co. Ltd**, Revere Hotel, Brockville, Ont.
220) **La Voix de l'Est Ltée**, 13 rue Centre, Granby, Que.
221) **R. CHUC Limited**, 202 Green St, Cobourg, Ont. **D.Prgr:** 11.00-05.00. **N:** On the h.
222) **La Radio du Bas St-Laurent Inc**, Causapscal, Que.
223) **CJOY Ltd**, Box 217, Guelph, Ont. **Te:** (519)824-7000. **L.P:** St. Mgr: W. O. Slatter. Dir. Tec: R. Nagyobb. **D.Prgr:** 24 h. **N:** 13.00, 17.10, 23.15, 04.00. **V.** by letter. Recordings accepted.
224) **R. Beauce Inc**, 30 rue Saint-Antoine, Wille Saint-George, Beauce County, Que. **D.Prgr:** 11.00-04.00. **N. in French:** 5 min's before the h. **V.** by letter. Rp.
225) **Lakeshore Broadc. Ltd**, P.O. Box 1470, Montreal 3, Que. **L.P:** Dir. Gen: G. Sinclair. Dir. Tec: B. Greeley. **D.Prgr:** W 10.00-07.00, Sun 11.00-06.00. **V.** by letter.
226) **Winnipeg Broadc. Associates Ltd**, 457 Main St, Winnipeg, Man. **L.P:** Dir. Gen: D. L. Croston. St. Mgr: H. R. Priddle. Dir. Tec: J. J. Pouls. **D.Prgr:** 24 h exc. Mon 12.00-06.00. **N:** Every h and 12.30, 13.30, 14.30, 18.30. **V.** by QSL-card.
227) **R. Winnipeg**, 457 Main St, Winnipeg 2, Man. **Te:** 947-1211. **L.P:** St. Mgr: J. S. Burton. Dir. Tec: H. Hing. **D.Prgr:** 11.55-07.00. (Sat 06.00). **N:** 5 min's before the h and also every half h 11.00-14.00 & 23.00-00.30. **Ann:** "This is CFRW, Radio Winnipeg". **V.** by QSL-card.
228) **Wellport Broadc. Ltd**, Welland, Ont.
229) **R. Drummond Ltée**, 449 Heriot St, Drummondville, Que.
230) **CFCP Radio Ltd**, Campbell River, B.C.
231) **Greatlakes Broadc. Co. Ltd**, 305 King St, Kitchener, Ont. **L.P:** Gen. Mgr: J. Clark. Dir. Tec: W. R. Graham. **D.Prgr:** 24 h. **N:** On the h. **V.** by letter. Recordings accepted. **FM:** 96.7MHz 7.8 kW.
232) **Frontier City Broadc. Ltd**, Box 1176, Shauavon, Sask. **D.Prgr:** 12.00-07.00. **N:** 13.15, 13.45, 14.30, 15.00, 16.00, 18.30, 19.30, 21.55, 00.00, 02.00, 03.00. **V.** by QSL-card. Rp. Recordings accepted.
233) **Evangeline Broadc. Co. Ltd**, Middleton, N.S. **D.Prgr:** 10.00-04.00.
234) **R. Alleghanys Inc**, Montmagny, Que.
235) **R. CKAY Ltd**, 110 Craig St, Duncan, B.C.
236) **R. Sherbrooke Ltd**, 2655 Quest rue King, Sherbrooke, Que.
237 **Tillsonburg Broadc. Co. Ltd**, 20 Baldwin St, Tillsonburg, Ont.
238) **R. 1540 Ltd**, 637 College St, Toronto, Ont. **L.P:** Pres: J. Lombardi. **D.Prgr:** 11.00-sunset (local time). **N:** Hourly from 11.00-22.00, and 23.30, 00.00, 02.55. **Ann:** "This is CHIN Toronto's International Station". **V.** by letter. Rp.
239) **CFOR Broadc. Ltd**, 241 W St. No, Orillia, Ont. **L.P:** St. Mgr: S. Fysh. Dir. Tec: L. Morris. **D.Prgr:** 11.00-07.00. **N:** Every h on the h. Also 11.30, 12.30, 13.30, 17.30, 23.30. **V.** by QSL-card. Recordings accepted. **F.PL:** 50kW.
240) **Nanaimo Broadc. Ltd**, 22 Esplanada St, Nanaimo, B.C.
241) **R. Laval Inc**, 1184 St. Catherine St. West, Montreal, Que. **D.Prgr:** 24 h. **V.** by QSL-card. Recordings accepted.
242) **R. Niagara Ltd**, Park Motor Hotel, Clifton Hill, Niagara Falls, Ont. **D.Prgr:** 10.30 (Sun 12.00)-05.00. **V.** by letter. Rp.

GREENLAND (Danish Territory)

L.T: GMT — 3h — **Pr.L:** Greenlandic, Danish.

GRONLANDS RADIO (Gov.)
ADDR: Grønlands Radiofoni, Godthåb. **Te:** 1172. **Cable:** Radiofoni — **L.P:** Dir. of Broadc: J. Chemnitz. Dir. Tec: B. N. Roer. Tec. Dept: K. Siversten.
STATIONS: Godthåb 570kHz 562.3m 25kW — **FM:** 97.2 2MHz 0.25kW; Godhavn 650kHz 461.5m 5kW — Frederikshåb 820kHz 365.9m 5kW.
Shortwave: Godthåb (G.C: 52.00W/64.00N), max. 10kW: 3999kHz 75.02m — 5960kHz 50.34m — 5980kHz 50.17m — 9575kHz 31.33m — 9655kHz 31.07m — 11745kHz 25.54m 10kW. The complete prgr. is transmitted on one or more of the above freq's over two or more directional aerials covering the angle between north and east of Godthåb according to a schedule published in advance for at least one month.
HOME SCE: Mon/Tues/Wed 10.15-11.40, 15.00-16.20; Thurs & Fri 15.00-16.30; Sat 15.00-03.30; Mon/Wed/Fri 20.30-02.40; Tues & Thurs: 19.30-02.40.
N: W 10.30, 11.30, 15.30, 21.40, 02.05; Sun 21.40, 02.05 — **Wrp:** 10.40, 15.30, 21.15, 02.00 (Sun 11.30, 12.25, 16.25, 22.15, 02.00).

An Invitation

in a unique and unusual organization, the Radio New York Worldwide Listeners Club, your membership entitles you to the following . . .

■ The Bulletin, issued bi-monthly, contains the most complete information and news on international communications, technical data and electronic news. Some outstanding articles already featured include: The Last Broadside, a report on Britain's pirate stations, Life in the Year 2000, an exciting look into the future, and Machines that Think, a lesson in automation and computer technology. The Bulletin also presents guest editorials, shortwave listening tips, plus a complimentary correspondence service for all members.

■ Every member receives an 8 and ½ inch impressive gold membership certificate and special wallet-sized membership card.

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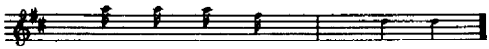
RADIO NEW YORK WORLDWIDE LISTENERS CLUB
DEPT. 100
485 MADISON AVENUE
NEW YORK 10022 USA

Norwegian: Sun 19.00-20.00 — **Faroese:** Sun 20.00-21.00.
For Schools (13/10 69-18/3 70): Mon 12.20, 13.20, 14.20, 16.20, 20.15; Tues/Wed 12.20, 13.20, 14.20, 16.20
ANN: "Kalâdlit-nunâta râdiua-Grønlands radio...." V. by letter or card. Rp.



INT-SIG: "Sunia kaligpok" (The Whaleboat "Sonja" drags Whale) played on celeste — **EC:** a/c 50 (yes).

ST. PIERRE ET MIQUELON

L.T.: GMT — 3 h — **Pr.L:** French.

OFFICE DE RADIODIFFUSION TELEVISION FRANCAISE
ADDR: B.P. 7, St. Pierre et Miquelon. **Te:** 05]. **Cable:** ORTF—**L.P:** St. Dir: G. Duclos. Dir. Tec: G. Chevalier.
STATION: 1375kHz 218.2m 4kW.
HOME SCE. in French: W 10.00-12.00, 15.00-16.30 (Thurs 17.30, Sat 18.00), 21.30-01.00; Sun 12.30-01.00.
N: 10.30, 15.30, 19.00 (Sun), 20.00 (Sun), 23.00 — **Wrp:** 10.30, 11.00, 15.45, 23.00, 23.15 — **ANN:** "Ici Saint-Pierre et Miquelon, Office de Radiodiffusion-Télévision Française" — **INT-SIG:** as France Inter (ORTF) — V. by letter. Recordings accepted.

UNITED STATES OF AMERICA

L.T: See World Time Table — **Pr.L:** English.

VOICE OF AMERICA (Gov.)
"THE VOICE OF AMERICA" is operated by the Broadcasting Service of the United States Information Agency. The V.O.A. seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.
ADDR: Voice of America, U.S. Information Agency, Washington D.C. 20547, USA — L.P: Dir. US Information Agency: Frank J. Shakespeare. Dir. Broadc. Sce: Kenneth R. Giddens; Dep. Dir: Richard G. Cushing. Dep. Dir. Prgrs: Francis S. Ronalds Jr; Engr. Mgr: Edgar T. Martin; Chief, Tech. Div: Julius Ross; Chief, Frequency Div: George Jacobs; Dir TV (Motion Picture) Sce: Bruce Herschensohn.
STATIONS: Call-letters not used.
Greenville (50/250/500kW): Greenville, No. Carolina — Bethany (140/250kW): Bethany, Ohio — Delano (50/100/200/250kW): Delano, California — Dixon (50/100/200/250kW): Dixon, California — Marathon, Florida (50kW-1180kc).
G.C: Greenville 77.22W/35.35N; Bethany 84.21W/39.21N; Delano 119.17W/35.45N; Dixon 121.45W/38.23N; Marathon 81.05W/24.42N.
East Coast Stations: * Bethany, others Greenville.

kHz	m	kHz	m	kHz	m	kHz	m
5995	50.04	11705	25.63	*15160	19.79	*17745	16.91
6020	49.83	11725	25.59	15195	19.74	17785	16.87
6030	49.75	11740	25.55	15205	19.73	*17800	16.85
6055	49.55	*11740	25.55	15225	19.71	17830	16.83
6065	49.46	11760	25.51	15235	19.69	*17860	16.80
6125	48.98	11790	25.45	15245	19.68	17875	16.79
6190	48.47	11805	25.41	15250	19.67	*17890	16.77
*9525	31.50	*11810	25.40	15270	19.65	*21485	13.96
9530	31.48	11830	25.36	15280	19.63	*21500	13.95
9565	31.36	*11830	25.36	*15330	19.57	21510	13.94
9590	31.28	*11835	25.35	15370	19.52	*21515	13.94
9635	31.14	11845	25.33	15400	19.48	21585	13.90
9640	31.12	11890	25.23	15410	19.47	21590	13.90
9650	31.09	*11890	25.23	15415	19.46	21640	13.86
*9655	31.07	11900	25.21	15430	19.44	21650	13.86
9670	31.02	11905	25.20	17705	16.94	21670	13.84
9725	30.85	11915	25.18	17710	16.94	21690	13.83
9740	30.80	*11915	25.18	17720	16.93	21740	13.80
*9755	30.75	11955	25.07	17730	16.92	25950	11.56
9770	30.71					26040	11.52

West Coast Stations: * = Dixon, others Delano.

kHz	m	kHz	m	kHz	m,	kHz	m
*5955	50.39	*9605	31.23	15410	19.47	21500	13.95
5965	50.29	9700	30.93	17745	16.91	*21610	13.88
6125	48.98	*9735	30.82	17765	16.89	*21630	13.87
6145	48.82	11805	25.41	*17820	16.84	21680	13.84
6185	48.50	11830	25.36	*17850	16.81	*21695	13.83
6190	48.47	*11850	25.32	17850	16.81	25620	11.72
9545	31.43	*11865	25.28	*17885	16.78	*25990	11.54
*9565	31.36	11875	25.26	*17895	16.76	*26095	11.50
		*15395	19.49	21460	13.98		

ANN: Station Identification is announced in English: "You are listening to the Voice of America from ----". (Greenville, North Carolina; Bethany, Ohio; Delano, California; Dixon, California; Marathon, Florida).
RELAY STATIONS:
For freq's of the relay stations, refer to the individual countries: Ceylon, Germany, Great Britain, Greece, Liberia, Morocco, Philippines, Ryukyu Islands, Vietnam.
ANN: "This is the Voice of America" is announced in the language of the program in which it is given and in English.
INT-SIG: Musical Signature, "YANKEE DOODLE", is played at the beginning and conclusion of transmissions and within programs.

PUB: Program schedules available upon request.
V. by QSL-card. No Rp. required.

To Europe

ALBANIAN kHz
06.00-06.30 6065/6075/7220/9545/9770/11790
ARMENIAN
14.00-15.00 11710/11790/15160/15195/15280/15310/17800/17890/21510/25950
BULGARIAN
17.00-18.00 5965/7170/11915/15195/15395
CZECH-SLOVAK
04.30-04.45 1196/6065/6080/7220/9540/9615/9770
05.30-05.45 1196/6065/6080/7220/9540/9615/9770
16.30-17.00 1196/9680/17875/21690
20.00-21.00 1196/5995/6160/9530 11725/11955/15270/21740
ESTONIAN
15.00-15.30 9660/11960/15235/15270/21740
GEORGIAN
13.00-14.00 11710/11790/15160/15195/15280/15310/17800/17890/21510/25950
GREEK
18.00-18.30 5965/6060/7170/11915/15195/15395
HUNGARIAN
04.15-04.30 1196/6065/6080/7220/9540/9615/9770
05.15-05.30 1196/6065/6080/7220/9540/9615/9770/
17.30-19.00 1196/5995/6160/9680/11960/15235/15270/21740
LATVIAN
16.00-16.30 9660/11960/15235/15270/21740
LITHUANIAN
15.30-16.00 9660/11960/15235/15270/21740
POLISH
04.45-05.15 1196/6065/6080/7220/9540/9615/9770
17.00-17.30 1196/9660/11960/15235/15270/21740
18.00-20.00 1196/5995/6160/9530/11955/15270/21740
ROMANIAN
18.30-19.30 791/5965/6060/7170/11915/15195/15395
20.00-20.30 5965/6060/7170/11830/11915/15195
RUSSIAN
03.00-05.00 1196 (to 04.00)/6020/6040/6125/6150/7170/9565/9715/11795
16.00-22.00 6150/9505/9540/11710/11805/15280/7270 (from 16.30), 15310 (to 18.00), 17800 (to 20.00), 21510 (to 19.00), 173 (from 20.00), 9670 (from 19.00)
21.00-22.00 5965/5995/6060/6160/7170/11830/11895/15195/15270/17830
21.15-21.45 7240/9590/15310
21.15-22.00 6075/9530/11915/11960/15235
SERBO-CROAT
19.30-20.00 791/5965/6060/7170/11915/15195
20.30-21.00 791/5965/6060/7170/9505/11830/11915/15195
SLOVENE
04.00-04.15 1196/6065/6080/7220/9540/9615/9770
05.45-06.00 1196/6065/6080/7220/9540/9615/9770
UKRAINIAN
15.00-16.00 9540/11710/11790/15160/15280/15310/17800/17890/21510/25950

To Africa

ARABIC
05.30/06.00 6020/6150/6180/7175/7250/9670/11705/15195
07.30-08.00 6015/6095/7250/9670/11705/15195
FRENCH * = Mon-Fri; † = to No. Africa
06.00-07.30* 6015/6095/6180/7175/7250/9670/9735/11705/11770/11875/15195
18.30-21.00 6035/6045/7135/17830/17875/21485/25950
22.00-22.30† 5965/6160/7260/7270/9590/11915/15280/17720/17830

To Near and Middle East

ARABIC
04.00-06.00 1259/6015/7110
17.00-21.00 1259/6015/7205

THE VOICE OF AMERICA

Around the World
Around the Clock
U.S. Information Agency
Washington, D.C.

TURKISH **kHz**
16.30-17.00 1259/6015/7205/11915/15195/17815/21690

To South Asia

BENGALI
16.00-17.00 1580/9615/11875/15250
HINDI
15.00-16.00 9615'11875/15250
TAMIL
15.00-15.30 7105/11835/15195/17815/21660/21690
URDU
15.30-16.30 7105/11835/15195/17815/21660/21690

To Far East

BURMESE
00.30-01.30 11920/15175/17830/21570
06.00-07.00 11785/15155/17830/21570
11.30-14.30 (1580/11730 to 12.30)/11895/15250/17825
CAMBODIAN
23.30-24.00 11920/15185/17735/25620
05.30-06.00 11785/15155/17830
13.00-14.00 1580 (from 13.30)/9630/11730/11930/15110
CHINESE
22.00-01.00 7135/9770/15395/17745/21680/26095
10.00-16.00 1178 (11.00-13.00, 14.00-16.00)/6010/7255/9555/11965/15410 (from 11.00)/17765
16.00-17.00 1178/6010/7165/7255/9555/9650/9665/9760/11715/11790/11965/15110/15155/15175/15345/15410/17765
INDONESIAN
22.30-23.30 9650/11805/15175/21630/25620
07.00-09.00 11965/15155/17830
11.30-12.30 9630/11930/15110
14.30-15.30 9630/11930/15110
JAPANESE
21.30-22.00 7160/17895/21460
23.30-24.00 17895
KOREAN
21.30-22.00 3935/6075/17850/21630
22.00-23.00 3935/6075
13.30-14.00 1178/6125/9545
LAOTIAN
00.00-00.30 11920/15175/17830
12.30-13.00 1580/9630/11730/11930/15110
RUSSIAN
08.00-11.00 11930/15110/15210/15365/17740/17765
THAI
23.30-24.00 9650/11805/15175
11.00-11.30 9630/11930/15250
VIETNAMESE
03.00-05.30 11785/15155/17830
11.00-17.00 760/1580 (15.30-16.00)/1140/9530/11775/15365
17.00-24.00 1140/9530/11775/15365

To Latin America

PORTUGUESE
21.15-22.00 (Mon-Fri) 11890/15250/17705
22.00-01.00 9530/11890/15250/17705
SPANISH
12.00-14.00 1180/9525/11890/15235/17830/21590
23.00-23.30 (Mon-Fri) 9670/15400
23.30-03.00 1180/6190/9670/9725/11955/15400/17835
03.00-04.00 1180/6190/9670

PROGRAMMES IN ENGLISH

To Europe **kHz**
03.00-07.30 3980, 5995, 6160, 7200, 7270, 9635, 9740, 11760, 1196 (from 06.00), 5955 (from 06.00), 5965 (04.00-06.00), 6040 (from 05.00), 11830 (from 04.00)
14.00-18.00 3980, 6040, 9760, 15205, 15225, 17785, 17855, 21455, 1196 (16.00-16.30), 791 (from 17.00), 7285 (from 15.00), 11760 (to 15.00)
18.00-22.15 3980, 6040, 7285, 9760, 15225, 791 (18.00-18.30 & 21.00-21.30), 1196 (21.00-22.00), 7205/9740 (from 21.00), 11760 (20.00-22.00), 15205 (18.00-20.00), 17855 (18.00-20.15)
22.15-23.45 (W) 1196 (from 22.30), 3980, 6040, 7205, 7285, 22.15-24.00 (Sun) 9760
To North Africa
03.00-07.30 5965, 5995, 9635, 11830 (exc. 06.00-07.00), 9530 (exc. 04.00-06.00), 11740 (from 05.00)
14.00-17.00 15225, 17785, 21485
17.00-20.00 15225, 17785, 21485 (18.00-18.30)
21.00-22.15 9740, 15225, 21485
To East Africa W
03.00-06.00 7195, 7280, 9750, 11880 (03.00-05.00)
To East Africa **kHz**
14.00-19.00 15445, 17775, 21670 (14.00-17.00), 21695 (to 15.00)
19.00-22.15 15445, 17775
To South Africa
03.00-05.00 9750
14.00-17.15 15360
To West and Central Africa
04.00-06.00 7195, 7280, 9635, 9750
06.00-07.00 6035, 7280, 9530, 9750, 11845
07.00-07.30 6035, 7280, 9635, 9750
14.00-22.15 6145 (to 18.15), 7195 (from 18.00), 11970 (to 18.00), 15410, 15445, 17710 (to 20.00), 17720 (20.00-22.00), 17775, 21650 (to 19.00), 21455 (exc. 17.00-18.00 & 18.30-21.00), 26040 (to 22.00)
21.00-23.45 3990, 6035
To Middle East
03.00-05.00 1259 (to 04.00), 7200, 9740, 11760
05.00-06.00 7200, 9740, 11860, 15270
06.00-07.30 1259, 7200, 9740, 11760, 15270, 17705
14.00-16.30 1259, 11760 (from 15.00), 15205, 17855, 21455
16.30-23.00 1259 (from 21.00), 6040, 9760 (from 18.00), 11760 (to 18.00), 15205 (to 20.00), 17855, 21455 (to 18.00)
To South Asia
01.00-01.30 7275, 11835, 15290, 17750
01.30-02.00 7275, 11835
02.00-03.30 6160, 7200, 7275, 9740, 11835
11.30-12.00 7105, 11835, 15285
12.00-14.30 7105, 11835, 15205, 15285, 17855, 21455, 21560, 25880
14.30-15.00 7105, 11835, 15285
15.00-16.30 15205, 15285, 17855, 21455, 25880 (to 16.00)
16.30-17.30 7105, 11835, 15205, 15285, 17855, 21455
17.30-18.00 7105, 11835, 15285
To East Asia
22.00-02.00 15165, 15365, 17895 (from 00.00), 21695, 25990
09.00-16.30 7165, 9760, 11715
To South East Asia and Indonesia
22.00-24.00 7275, 9580, 11790, 15165
00.00-02.00 15165, 15210, 15365, 17735
09.00-16.30 1580 (14.00-15.00), 9665, 11715, 9760/11730 (14.00-15.00), 15155, 15345
To Oceania
22.00-24.00 17820, 21610
09.00-14.00 5955, 9735
To Latin America
00.00-02.00 9650, 11830, 15205

NEWS in English: 00.00, 00.28, 00.30, 01.00, 01.28, 01.30, 02.00, 02.28, 03.00, 03.28, 04.00, 04.28, 05.00, 05.28, 06.00, 06.28, 07.00, 09.00, 09.30, 10.00, 10.30, 11.00, 12.00, 12.30, 13.00, 13.30, 14.00, 15.00, 15.30, 16.00, 16.30, 17.00, 17.30, 18.00, 18.30, 19.00, 19.30, 20.00, 20.30, 21.00, 21.30, 22.00, 22.28, 23.00, 23.28.

NEWS in Special English: To Far East: 14.00; To South Asia: 14.00; To Europe and Middle East: 14.00, 17.00, 20.00, 22.00; To Africa: 14.00, 18.00, 22.00; To Latin America: 00.00.

N. in French: 06.00, 18.30, 19.00, 19.30, 20.00, 22.00.

N. in Indonesian: 22.30, 07.00, 11.30, 14.30.

N. in Portuguese: 21.30, 22.00, 22.30, 23.00, 23.30, 00.00, 00.53.

N. in Spanish: 12.00, 12.30, 13.00, 13.30, 13.55, 23.00 (Mon-Fri), 23.30, 00.00, 01.00, 02.00, 02.55, 03.00, 03.55.

NA15(196)

AMERICAN FORCES RADIO AND TELEVISION SCE.

ADDR: Deputy for American Forces Radio and Television Office of Information for the American Forces, ASD (M + RA), Washington, D.C. 20305 — **L.P:** Dir: John C. Broger. This office exercises over-all policy control of the American Forces Radio and Television Service (AFRTS). The missions of AFRTS is to keep US service-men informed on current events. All broadcasts are in English. News, sports and other timely information is beamed overseas by shortwave tr's on the US Atlantic and Pacific coasts and a relay tr. in the Philippines. These sw-tr's serve the overseas stations and ships at sea which relay them locally. Programs other than news and locally produced programs are derived directly from the US Commercial radio and TV networks. These programs are transcribed or kinecoped and shipped to the overseas stations by the American Forces Radio and Television Service, Los Angeles, California. **L.P:** Officer-in-Charge: Col. Robert Cranston, USA.

WORLDWIDE SERVICE (from Washington D.C.)

ADDR: American Forces Radio and Television Service, Washington, 1117 North 19th Street, Arlington, Virginia 22209 — **L.P:** Chief, L.T.C: Harry R. Bangs. Chief Engineer: Enrico Bove.

Call	kHz	m	Area (Beam)	h. of tr.
BY-1	21500	13.95	So. Eur./No. Africa (57°)	13.30-23.00
GA-9	15430	19.44	No. Africa/Europe (67°	13.00-23.00
GA-5	15430	19.44	Europe (45°)	13.30-23.00
DL-5	21500	13.95	Far East (306°)	21.30-04.00
DL-4	17765	16.89	Far East (295°)	21.30-06.00
DL-7	15410	19.47	Far East (306°)	03.00-08.00
DL-5	11805	25.41	Far East (295°)	06.00-16.30
DL-4	9700	30.93	Far East (306°)	06.30-16.30
Phil-8	15250	19.67	S.E. Asia (248°)	06.30-16.30
BY-2	15330	19.57	Caribbean (168°)	12.00-04.00
BY-5	9755	30.75	Caribbean (168°)	04.00-12.00

N: On the h and half h — **Program Notes:** Each day at 06.50, 14.50, 22.50.
ANN: "This is the American Forces Radio and Television Service" — V. by QSL-card — PUB: Program Schedule published quarterly; each new schedule available upon written request, no permanent mailing list maintained.

A.F.R.T.S.s OUTLETS BROADCASTING

Abbreviations: A = Army, AFKN = American Forces Korea Network, FEN = Far East Network, N = Navy, AF = Air Force, Fo = Fort, Cp = Cape. The great majority of the stations operate from 06.00-24.00 L.T.
* = Studio installations.

Location	Sce	kHz	W
ALASKAN AREA			
*Adak	AF	890	250
*Anchorage	AF	860	50
Bethel	AF	1490	50
Campion	AF	570	250
Cp Lisburne	AF	1400	10
Cp Newenham	AF	1450	50
Cp Romanzof	AF	1240	50
Cp Sarichef	AF	1400	10
Chiniak	AF	1490	25
Clear	AF	1490	50
Cold Bay	AF	1490	10
Driftwood Bay	AF	1450	50
*Fairbanks	AF	1490	50
Fire Island	AF	1240	10
*Fo Greely	AF	980	50
Fo Richardson	AF	1360	10
Fo Wainwright	AF	1360	50
Fo Yukon	AF	1340	50
Indian Mountain I	AF	1240	10
Indian Mountain II	AF	1580	10
KingSalmon	AF	970	250
*Kodiak	AF	960	250
Kotzebue	AF	1340	50
Murphy Dome	AF	1470	10
Nikolski	AF	1340	50
Nome	AF	590	50
Northeast Cape	AF	1450	50
Port Heiden	AF	1340	50
Port Moller	AF	1230	10
Shemya	AF	1240	250
Site Love	AF	1240	10
Sparrevohn	AF	1350	50
Tatalina	AF	1450	50
Tok Junction	AF	1400	10
Tin City	AF	1490	50
Unalakleet	AF	1400	50
Wildwood	AF	1490	50
CANADIAN AREA			
Newfoundland			
*Argentia	N	1480	50
CARIBBEAN AREA			
Canal Zone			
*Fo Clayton	A	790	5kW
Fo Davis	A	1420	1kW
Cuba			
*Guantanamo	N	1340	1kW
Puerto Rico			
*Ramey	N	780	50
Fo Allen	N	780	50
Roosevelt Roads	N	1200	50
*San Juan	N	1200	50

Location	Sce	kHz	W
EUROPEAN AREA			
Belgium			
Brussel	A	100.8	75
Chievress	A	101.5	4kW
Greece			
*Iraklion	AF	1570	250
*Athens	AF	1594	1kW
Italy		MHz	W
Aviano	A	106.0	50
Livorno	A	106.0	50
*San Vito	N	106.0	50
*Sigonella	AF	106.0	50
Verona	AF	106.0	50
*Vicenza	A	106.0	50

For Germany, Holland and Spain: see resp. countries.

Location	Sce	kHz	W
NORTH AFRICAN AREA			
Morocco			
*Kenitra	AF	1484	700
Libya			
*Tripoli	AF	1594	1kW
FAR EAST AREA			
Japan: see Japan;			
Korea: see Korea.			
Philippine Islands			
Baguio	AF	1300	250
*Clark, AB	AF	1520	1kW
*Mactan Island	AF	1300	50
*Sangley Point	AF	1220	250
Pampaga	AF	1520	50
*Subic Bay	AF	1300	250
Ryukyu Islands			
*Okinawa	AF	650	10kW
Taiwan: see Taiwan.			
Thailand			
Mukdahan	AF	770	100
Nakhon	AF	770	100
Phanom	AF	770	100
Ubon	AF	940	100
Green Hill	AF	1220	50
Khon Kaen	AF	1220	100
U Tapao	AF	1220	100
Korat	AF	1450	100
PhiSamulok	AF	1450	100
Cp Claudy	AF	1450	50
Thakli	AF	1520	100
Udorn	AF	1520	100
Chiang Mai	AF	1520	50
Koke Kathian	AF	1520	50
Vietnam			
—		540	50kW
—		560	50kW
—		770	10kW
—		850	10kW
—		900	10kW
—		930	1kW
—		1200	1kW
MIDDLE EAST AREA			
Eritrea			
*Asmara	A	1475	250
Iran			
*Teheran	A	630	250
Pakistan			
*Peshawar	AF	870	25
Turkey			
*Adana	AF	1590	10
*Cigli (Izmir)	AF	1570	50
*Diyarbakir	AF	1570	50
*Karamursel	AF	1590	50
*Samsun	AF	1590	25
*Trabzon	AF	1590	25
ATLANTIC AREA			
*Ascension Island	AF	1600	1kW
*Terceira	AF	1500	250

Location	Sce	kHz	W
Greenland			
*Sondrestrom	AF	1420	250
*Thule	AF	1425	1kW
Iceland			
Keflavik	N	1485	250
PACIFIC AREA			
*Eniwetok	AF	1385	250
*Anderson	N	1090	200
*Johnston Island	AF	1250	100
*Kwajalain	A	1220	1kW
*Midway Island	N	900	250
*Wake Island	AF	1490	15

ADDRESSES: (SF = San Francisco, C = California, F = US Forces).
European Area: Athens = APO 09223, F; Acores = APO 09406, F: Keflavik = FPO 09571, F;
Caribbean Area: Bermuda = FPO 09560, F; Port of Spain = FPO 09555, F; Ramey = APO 09845, F; Canal Zone = APO 09339, F;
Middle East Area: Teheran = APO 09205, F;
Far East Area: Philippines = APO 74, SF, C 96274; Rykuyu Isl = APO, SF, C 96239; Thailand = APO, SF, C 96288; Vietnam = APO, SF, C 96309;
Pacific Area: Anderson (Guam) = APO, SF, C 96640; Johnston Isl = Station WVTV, APO, SF, C 96305; Kwajalein—The Voice of the Marshall Islands, Box 23, APO, SF, C 96555; Midway Island = The Voice of the Pacific, Box 2, APO, SF, C 96640.

INTERNATIONAL BROADCAST STATION KGEI

ADDR: P.O. Box 887, Belmont, Calif. 94002. **Te:** 591-4820. **Cable:** Febcomsfran — **L.P:** St. Mgr: J. R. Bowman. Dir. Tec: J. L. Brooks. Dir. Prgr: S. P. J. Peter.
STATIONS: (Belmont: G.C: 122.14W/37.33N): 250kW 9715kHz 30.88m — 11740kHz 25.55m — 15240kHz 19.69m — 15245kHz 19.68m.
LATIN AMERICA SCE: W 22.15-05.00, Sun 22.15-03.00 on 15240kHz, 02.00-05.00 (Sun 03.00) on 15245kHz. **English:** Mon-Fri 04.30-05.00; Sat 23.30-24.00; Sun 23.30-00.30.

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ANN: E (Sign-on): "This is the Voice of Friendship, International Broadc. st. KGEI, San Francisco, Calif. the United States of America, owned and operated by the Far East Broadc. Company on a freq. of . . . KGEI is dedicated to the purpose of promoting good will, better understanding and friendship amongst the peoples of the Americas".
INT-SIG: Signs off with Nat. Anthem — V. by QS-Card (send 1 IRC for surface mail, 3 IRC's for airmail).

RADIO NEW YORK WORLDWIDE (WNYW) (Comm.)
ADDR: 485 Madison Avenue, New York, N.Y. 10022. **Te:** (212)752-3322. **Cable:** "Radioworld" — **L.P:** Pres: Stanley McAllister. Vice Pres. and Gen. Mgr: Richard W. Grefe. Secr: Robert Barker. Treasurer: Blaine Whipple. Prgr. Dir: Larry Yount. Dir. Tr. Eng: James K. Howard. Dir. Studio Eng: Joseph Losgar. Dir. Sales Promotion: Irwin J. Belofsky.
STATIONS (G.C: 70.44W/42.13N): 100kW

kHz	m	kHz	m	kHz	m	kHz	m
6075	49.38	11770	25.49	15280	19.63	17760	16.89
9545	31.43	11855	25.31	15435	19.44	17845	16.81
9615	31.20	15130	19.83	15440	19.43	21525	13.94
9690	30.96						

Schedule November '69-February '70:
TO EUROPE

Times	kHz	Times	kHz
17.00-18.40	21525	20.00-22.15	11855
17.00-19.45	17845	20.00-22.35	9690
18.55-19.45	15440	22.30-23.30	6075

TO AFRICA: 17.00-21.30 on 21525kHz.
TO CARIBBEAN and LATIN AMERICA:

Times	kHz	Times	kHz
17.00-23.38	17760	23.52-02.37	11855
21.50-01.15	15130	00.30-02.37	9545
22.50-00.15	15280	01.15-02.37	9615
23.45-01.00	15435	01.30-02.37	11770

English Service:
N: Every h and half h — **Caribbean Weather Watch:** 17.35 (W), 18.35, 19.35, 20.35, 21.35, 22.35 — **Stock Market Reports:** Mon-Fri 19.30, 21.20, 22.20 — **The World This Week:** Sun 19.37 — **Face the Nation:** Sun 22.05 — **World Wide Hit Parade:** Sat 20.05 — **DX-ing Worldwide:** Sat 17.35, Sun 19.05 — **Hour of Decision:** Thurs and Sun 20.00.
Bilingual Service (English and Spanish):
N: Every h (English) and every h on the half (Spanish) — **Caribbean Weather Watch:** In English at 10 min's past the h; in Spanish 35 min's past the h.
ANN: E: "This is WNYW R. New York Worldwide". Sp: "Esta es R. Neuva York, WNYW" — V. by QSL-card; recorded reports accepted.
PUB: Illustrated Prgr. Guide offered free. Write to R. New York Worldwide, N.Y. 10022. Advanced prgr. and freq. inf. available to members of New York Worldwide Listener's Club. Yearly dues: $1.00 or equivalent other currencies ($2.00 in the USA). Bi-monthly bulletin and club services available to all members. For further inf. write to the Club, R. New York Worldwide, 485 Madison Ave, New York City, 10022, USA.

WORLD INTER-NATIONAL BROADCASTERS (WINB)
ADDR: P.O. Box 88, Red Lion, Penna. 17356 — **L.P:** Pres: Rev. John M. Norris. Vice Pres: J. H. Norris. Chief Eng: F. W. Wise.
STATIONS (G.C: 76.34W/39.5N): 50kW.
11795kHz 25.43m — 17720kHz 16.93m.
D.Prgr. in English (to So. Europe, Near East, Mediterranean and No. Africa): 17.00-20.00 on 17720kHz, 20.02-22.00 on 11795kHz. **N. in English:** 17.01 (Mon-Fri), 20.03 (exc. Sun).
ANN: "You are listening to World International Broadcasters, R. Station, WINB, broadc. from Red Lion, Pennsylvania, United States of America, on a freq. of . . . megacycles, with transmitting power of 50.000 watts" — V. by QSL-card and prgr. schedule. Reports wanted — WINB is a comm.st. which purpose is to promote the God of the Bible and country.

NATIONAL ASSOCIATION OF BROADCASTERS
ADDR: 1771 N. Street N.W, Washington, D.C. 20036.
Purpose: The purpose of the Association is to foster and promote the development of the arts of aural and visual broadc. in all its forms to protect its members in every lawful and proper manner from injustices; to do all things necessary and proper to encourage customs and practices which will strengthen and maintain the broadc. industry to the end that it may best serve the public.

L.P: Chmn: Grover C. Cobb. Press: V. T. Wasilewski. Vice-Pres, Radio: Charlie Stone. Secr. Treasurer: E. E. Revercomb.

COMMERCIAL STATIONS

A new format for radio was born during the past years in the United States — progressive rock. More than two dozen FM radio stations in the U.S. and Canada are now featuring a progressive rock format. The format involves a combination of songs either with meaningful lyrics (this includes folk songs) and records featuring the progressive music of groups like the Cream, the Doors, Beatles. This type of format is the hottest thing in the States and many AM radio stations are now including one or more hours top 40 of progressive rock in their regular schedule; many AM radio stations are playing some progressive rock records along with their regular records, especially as the records become so popular. Through progressive rock formats, FM stations in general are beginning for the first time to make an impact in audience rating surveys. Within the United States, the power of a radio station is often not as important to listeners as its programming. In most major cities, radio stations concentrate their programming to appeal to a given segment of the population and there's a type of programming available to appeal to almost every listening taste. There are stations that devote their entire broadcast day to news, others that devote their time to talk programs. In most cities, the station with the largest listening audience is that station which aims its programming to teenagers and young adults — primarily the people who buy single 45 rpm records. These are mostly rock'n'roll records and the stations base their programming on Billboard Magazine's Hot 100 Chart, which lists the top-selling single 45 rpm records in the nation. Other radio stations program music to appeal to young adults and adults and their music is selected from Billboard's top 40 Easy Listening Chart. These "good music" stations usually have the major part of the radio listening audience during morning and early afternoon listening hours before teenagers get out of school.
There are also radio stations that program nothing but country music, others that program Latin American music, others that feature rhythm and blues (aimed primarily at Negro listeners), many that program religious services and religious music, a few that feature mostly jazz, a few that program "background" — or soft relaxing — music, and a good many that program nothing but classical music.

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Better Shortwave Reception, $3.50
Shortwave Listening *by Jim Vastenhoud*, $2.50
All World Publications
as Advertised on Pages 38, 113 & 183
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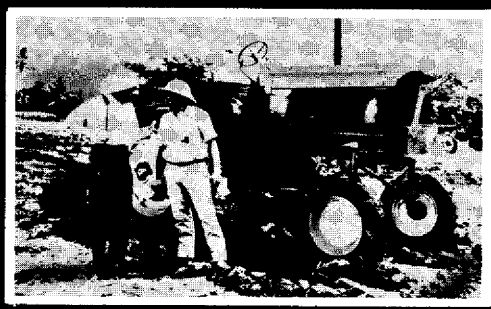
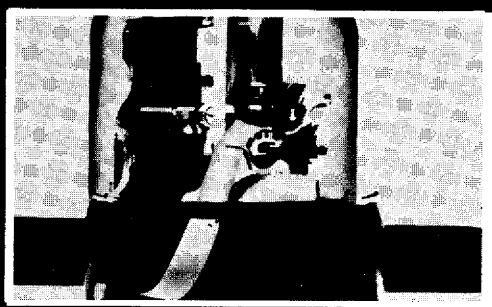
218 Gifford Street, Syracuse, N.Y. 13202

Viva la actualidad Neoyorquina! Sintonice Radio Nueva York



- **EL SURCO DEL AIRE JOHN DEERE** . . . agricultural news beamed in Spanish to listeners throughout the Americas, Monday through Friday, at 0030 GMT.



- **NOTICIAS DEL LAS ACTIVIDAD COMERCIAL** . . . closing stock market reports—direct from the Exchange sponsored by Merrill, Lynch, Pierce, Fenner & Smith, Inc., in both English and Spanish, Monday through Friday at 0015 GMT.

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For a complete free program schedule write:

WNYW **485 MADISON AVENUE**
NEW YORK 10022 USA

La Emisora Internacional Privada de Nueva York

In many cases, the signal of a radio station is directional, meaning that reception is better in the direction the station is aiming its signal.
Most radio stations, because of the better broadcast conditions cut down their power at night.
Because many radio stations are limited to daytime operation only on AM, a large number of these stations round out a broadcast schedule through an affiliated FM radio station.
Following is a list of MW stations operating with 10kW power or more. Not only is the address of the station provided, but its principal official, its operational hours (local time), but where the station is known for one type of programming, the kind of programming available on the station.
NB: Clear channel st's are listed in bold types.

Call	kW	H of tr.
540kHz		
1) WGTO	50	Daytime
640		
2) KFI	50	24 h
650		
3) KORL	10	24 h
4) WSM	50	24 h
660		
5) KFAR	10	24 h
6) WNBC	50	24 h
7) WESC	10	Daytime
670		
8) WMAQ	50	24 h
680		
9) KBAT	50	5-1 am
10) KNBR	50	24 h
11) WCBM	10	24 h
12) WRKO	50	24 h
13) WPTF	50	24 h
14) WMPS	10	24 h
15) WCAW	10	6-1 am
690		
16) WVOK	50	Daytime
17) WAPE	50	24 h
18) KKUA	10	24 h
19) KGGF	10/5	6 am-Mid
20) KHEY	10	24 h
21) WCYB	10	Daytime
700		
22) WLW	50	24 h
710		
23) KMPC	50	24 h
24) WGBS	50	24 h
25) KEEL	50	5 am-Mid
26) WHB	10	24 h
27) WOR	50	24 h
28) KGNC	10	24 h
29) KIRO	50	24 h
720		
30) WGN	50	24 h
740		
31) WBAM	50	Daytime
32) KBIG	10	Daytime
33) KCBS	50	24 h
34) WPAQ	10	Daytime
35) KRMG	50	24 h
36) KTRH	50	19 h
750		
37) KFQD	10	24 h
38) WSB	50	24 h
39) KMMJ	10	Daytime
40) KXL	50	Daytime
760		
41) KGU	10	24 h
42) WJR	50	24 h
770		
43) KOB	50	24 h
44) WABC	50	24 h
780		
45) WBBM	50	24 h
810		
46 KGO	50	5.30-1 am
47) KCMO	50	24 h
48) WGY	50	24 h
820		
49) WFAA	50	24 h
50) WBAP	50	24 h
830		
51) WCCO	50	24 h
840		
52) WHAS	50	5 am-Mid
850		
53) Wyde	10	24 h
54) KOA	50	5 am-Mid
55) WHDH	50	24 h
56) WIVK	50	Daytime
57 WKIX	10	24 h
58 WJW	10	24 h
59) WJAC	10	5.30-1.30am
860		
60) KTRB	10	24 h
61) KOAM	10	5 am-Mid
62) WOAY	10	Daytime
870		
63) WWL	50	24 h
880		
64) WCBS	50	24 h
890		
65) WLS	50	24 h
900		
66) KFRB	10	24 h
940		
67) KFRE	50	5.30 am-Mid
68) WINC	50	24 h
69) WMAZ	50/10	5.30 am-Mid
70) KAHU	10	24 h
71) KIOA	10	21 h
72) WYLD	10/0.5	24 h
73) WFNC	10	5.30 am-Mid
990		
74) KTKT	10/1	24 h
75) KWAM	10	Daytime
76 WHOO	50	24 h
77) WIBG	50	24 h
78) WLKW	50	Daytime
79) WNOX	10	24 h
80) KNIN	10	5.30-1 am
1000		
81) WCFL	50	24 h
82) KOMO	50	5 am-Mid
1010		
83) KLRA	10/5	4.30 am-Mid
84) KSAY	10	Daytime
85) WINQ	50	Daytime
86) WGUN	50	Daytime
87) WMOX	10	4 am-Mid
88) KXEN	50	Daytime
89) KRVN	25	Daytime
90) WINS	50	24 h
91) WFGW	50	Daytime
92) KAWA	10	Daytime
1020		
93) KGBS	50	Daytime
94) KSWS	50	5.30 am-Mid
95 KDKA	50	24 h
1030		
96) WBZ	50	24 h
97) KCTA	50	Daytime
1040		
98) WHO	50	24 h
1050		
99) WHN	50	24 h
1060		
100) KPAY	10	5.30 am-Mid
101) WNOE	50	24 h
102) KYW	50	24 h
1070		
103) WAPI	50/5	19 h
104) WFLI	10	24 h
105 KNX	50	24 h
106) WIBC	50/10	24 h
107) KFDI	10	24 h
108) WDIA	50	24 h
109) WKOW	10	5 am-Mid
1080		
110) KSCO	10	5.30 am-11.35 pm
111) WTIC	50	24 h
112) KWJJ	50	24 h
113) KRLD	50	24 h
114) WBIE	10	Daytime
115) WVCG	10/0.5	24 h
1090		
116) KAAY	50	24 h
117) KING	50	24 h
118) WBAL	50	24 h
119) WQIK	50	Daytime
1100		
120) KFAX	50	Daytime
121) WHLI	10	Daytime
122) WKYC	50	24 h
1110		
123) KRLA	50/10	24 h
124) WALT	10	Daytime
125) KFAB	50	24 h
126) WBT	50	24 h
1120		
127) KMOX	50	24 h
1130		
128) KWKH	50	5-1 am
129) WCAR	50	24 h
130) WDGY	50	24 h
131) WNEW	50	24 h
132) WISN	50	5.30-12.30 am
1140		
133) KRAK	50	24 h
134) WMIE	10	24 h
135) KGEM	10	24 h
136) KSOO	10	5-1 am
137) WRVA	50	24 h
1160		
138) WJJD	50	Daytime
139) KSL	50	24 h
1170		
140) WCOV	10	5 am-Mid
141) KCBQ	50	24 h
142) KVOO	50	24 h
143) WWVA	50	24 h
144) KLOK	10/5	24 h
1180		
145) WHAM	50	24 h
1190		
146) KEX	50	24 h
147) KLIF	50/1	24 h
148) WANN	10	Daytime
149) WLIB	10	Daytime 1 h after sunset
150) WOWO	50	24 h
1200		
151) WOAI	50	24 h
1210		
152) WCAU	50	24 h
153) WKNX	10	Daytime
1220		
154) WGAR	50	5.30-1 am
1500		
155) KXRX	10/5	24 h
156) WTOG	50	24 h
157) WJBK	50/5	24 h
158) KSTP	50	5-1 am
159) KPIR	10	Daytime
1510		
160) KALF	10	Daytime
161) WNLC	10/5	05.30-00.05
162) WLAC	50	24 h
163) KGA	50	am-Mid
164) WAUK	10	Daytime
1520		
165) KACY	10	18 h
166) WKBW	50	24 h
167) WTHE	10	Daytime
168) KOMA	50	24 h
169) KYMN	50	24 h
170) KXKW	10	5.25 am-Mid
1530		
171) KFBK	50	5 am-Mid
172) WCKY	50	24 h
173) KGBT	50	5 am-Mid
1540		
174) KBUY	50	24 h
175) KPOL	50/10	24 h
176) KXEL	50	24 h
177) WPTR	50	24 h
178) WRCP	50	Daytime
179) KASA	10	Daytime
1550		
180) KKHI	10	6 am-Mid
181) KWIC	10	Daytime
182) WRIZ	10	Daytime
183) WMOO	50	Daytime
184) KQXI	10	Daytime
185) KOKA	10	4 am-Mid
186) WBSC	10	6 am-11.15 pm
187) WOKJ	50	5 am-Mid
188) WYOU	10	Daytime
189) WYNX	10	Daytime
1560		
190) WWGM	10	Daytime
191) KPMC	10	05.45-24.00
192) WQXR	50	06.00-00.07
1580		
193) KDAY	50	Daytime
194) KYND	50	Daytime
195) WAXU	10	Daytime
196) WPAC	10	Daytime
197) WPGC	10	6 am-Mid
198) WSRF	10/5	24 h

WFAA and WBAP share same frequency: WFAA has the 820 frequency 7.30 am-12.30 pm and 5 pm-midnight; WBAP takes it midnight-7.30 am and 12.30-5 pm. Whichever station is not using the 820 50kW frequency, operates at 570 with 5kW and a directional signal.
1) Box 123, Cypress Gardens, Fla. 33880. Pres: Stanley C. Hubbard.
2) 141 N. Vermont Ave, Los Angeles, Calif. 90054. Pres. & Gen. Mgr: Edmund C. Bunker. Prgr: Good music.
3) Box 8250, Honolulu, Haw. 96815. Vice-Pres. & Gen. Mgr: Milton L. Hibdon.
4) Box 100, Nashville, Tenn, 37202. Press: Irving C. Waugh Jr. Prgr: Good music (day), country music (night).
5) Lathrop Bldg, Fairbanks, Alsk. 99701. Pres: A. O. Bramstedt.

6) 30 Rockefeller Plaza, New York, N.Y. 10020. St. Mgr: Lee S. Hanson. Prgr: Contemporary, Talk, News.
7) Box 2447, Greenville, S.C. 29602. Pres: Robert A. Schmid. Prgr: Good music, country music.
8) Merchandise Mart, Chicago, Ill. 60654. Pres: Harry D. Jacobs Jr. Prgr: Good music, Rock'n'roll, talk, news, Latin American Music.
9) 8108 Bandera Rd, San Antonio, Tex. 78228. Vice Pres. & Gen. Mgr: Ed Montray. Prgr: Rock'n'roll.
10) Fox Plaza Bldg, San Francisco, Calif. 94102. Pres: Dale Moudy. Prgr: Good music. V. by QSL-card. Rp.
11) 2610 N. Charles St, Baltimore, Md. 21218. Vice Pres. & Gen. Mgr: Donald Kelly. Prgr: Good music.
12) RKO General Bldg, Gout Center, Boston, Mass. 02114. Vice Pres. & Gen. Mgr: Perry S. Ury. Prgr: Rock'n'Roll.
13) Box 1511, WPTF Bldg, Raleigh, N.C. 27602. Gen. Mgr: Richard H. Mason. Prgr: Good music, Talk, Classical music. V. by QSL-card.
14) Radio Center, 112 Union, Memphis, Tenn. 38101. Pres: Harold Krelstein. Prgr: Rock'n'roll.
15) Box 4318, Charleston, W. Va. 25304. Pres: E. M. Johnson.
16) Box 2468, Birmingham, Ala. 35201. Pres: Iralee W. Benns. Prgr: Good Music, Country Music, Talk, News. V. by QSL-card.
17) 1111 Prudential Bldg, Jacksonville, Fla. 32207. Pres: Mrs. Frances U. Brennan. Prgr: Rock'n'roll.
18) 830 Ala Moana Blvd, Honolulu, Haw. 96813. Vice Pres. & Gen. Mgr: H. G. Fearnhead. Prgr: Rock'n'roll.
19) 8th & Elm Sts, Coffeyville, Kan. 67337. Mgr: Robert L. Pratt. Prgr: Good Music, Country Music, Rock'n'roll, News, Sports. V. by letter. Rp.
20) 2419 N. Piedrias, El Paso, Tex. 79930. Gen. Mgr: Bert & Whalen. Prgr: Country Music.
21) Box 1009, Bristol, Va. 24201. Pres. & Gen. Mgr: Robert H. Smith.
22) 140 W. 9th St, Cincinnati, Ohio 45202. Gen. Mgr: Charles K. Murdock. Prgr: Good Music, News, Classical Music, American Music, V. by QSL-card. Rp.
23) 5858 Sunset Blvd, Los Angeles, Calif. 90028. Vice Pres. & Gen. Mgr: Stanley L. Spera. Prgr: Good Music.
24) 710 Bldg. on Brickell Ave, Miami, Fla. 33131. Vice Pres. & Gen. Mgr: Reggie Martin. Prgr: Contemporary, News, Sports. V. by QSL-card.
25) Box 7, 710 Spring St, Shreveport, La. 71102. Pres: Donald A. Pels. Prgr: Rock'n'roll.
26) 106 W. 14th St, Kansas City, Mo. 64105. Gen. Mgr: R. G. Reames. Prgr: Rock'n'roll.
27) 1440 Broadway, New York, N.Y. 10018. Vice Pres. & Gen. Mgr: Robert S. Smith. Prgr: Talk. V. by letter. Recordings accepted.
28) Box 751, Amarillo, Tex. 79105. Vice Pres, Broadc: Thad M. Sandstrom. Prgr: Good Music.
29) 3rd & Broad Sts, Seattle, Wash. 98121. Exec. Vice Pres: Lloyd E. Cooney. Dir. Tec: Charles Morris. Prgr: Good Music, Talk, News.
30) 2501 Bradley Pl, Chicago, Ill. 60618. Vice Pres. & Gen. Mgr: Charles E. Gates. Prgr: Good Music, Talk, News, V. by QSL-card. Recordings accepted.
31) Box 1447, Montgomery, Ala. 36102. Pres. & Gen. Mgr: Mrs. Frances Brennan.
32) 6540 Sunset Blvd, Los Angeles, Calif. 90028. Studios: Avalon, Catalina Isl, Hollywood. Vice Pres. & Gen. Mgr: Gordon Mason. Soft background music.
33) 140 Jessie St, San Francisco, Calif. 94105. Vice Pres. & Gen. Mgr: Neil E. Derrough. Prgr: News.
34) Box 907, Airy, N.C. 27030. Owner: Ralph Epperson.
35) 1502 S. Bounder, Tulsa, Okla. 74103. Gen. Mgr: Ron B. Blue.
36) Rice Hotel, Houston. Tex. 77052. Vice Pres. & Gen. Mgr: Frank Stewart. Prgr: Good Music.
37) Box 1040, Anchorage, Alaska 99501. Pres: Miller C. Robertson.
38) 1601 W. Peachtree St, N.E., Atlanta, Ga. 30309. Gen. Mgr: Elmo Ellis. Prgr: Good Music, Country Music, Talk, News. V. by QSL-card. Recordings accepted.
39) Division at Cedar St, Grand Island, Neb. 68801. Pres. & Gen. Mgr: Rex A. Lathen.
40) Box 22106, Portland, Ore. 97222. Gen. Mgr: Lester M. Smith. Prgr: Good Music.
41) 605 Kapiolam Blvd, Honolulu, Haw. 96813. Vice Pres. & Gen. Mgr: James Hawthorne. Prgr: Good Music.
42) 2200 Fisher Bldg, Detroit, Mich. 48202. Vice Pres. & Gen. Mgr: Daniel B. Burke. Prgr: Good Music, Talk, News, Classical Music. V. by QSL-card. Rp.
43) Box 1351, Albuquerque, N. M. 87103. Pres: Stanley E. Hubbard. Gen. Mgr: Robert C. Pettingel. Prgr: Good Music, Talk, News. V. by QSL-card.
44) 1330 Ave. of the Americas, New York, N.Y. 10019. Vice Pres. & Gen. Mgr: Don B. Curran. Prgr: Rock'n'roll, News. V. by QSL-card. Recordings accepted.
45) 630 N. McClurg Court, Chicago, Ill. 60611. Vice Pres. & Gen. Mgr: William C. O'Donnell.
46) 277 Golden Gate Ave, San Francisco, Calif. 94102. Gen. Mgr: Edward F. McLaughlin.
47) 125 E. 31st St, Kansas City, Mo. 64108. Vice Pres. & Gen. Mgr: E. K. Hartenbower. Prgr: Good Music.
48) 1400 Balltown Rd, Schenectady, N.Y. 12309. Gen. Mgr: Robert Gilberston. Prgr: Good Music, Rock'n'roll, Talk, News. V. by QSL-card.
49) Young & Record Sts, Dallas, Tex. 75202. Gen. Mgr: Mike Shapiro. Prgr: Good Music.
50) Box 1780, Fort Worth, Tex. 76101. St. Mgr: Guy Woodward Jr. Prgr: Good Music.
51) 625 2nd Ave, S, Minneapolis, Minn. 55402. Exec. Vice Pres: Larry Haeg. Prgr: good Music.
52) 520 W. Chestnut, Louisville, Ky. 40202. Sales Dir: James Topmiller. V. by QSL-card.
53) Suite 520, 2101 Magnolia Ave, Birmingham, Ala. 35205. Gen. Mgr: Berk Fraser.
54) Box 5012, Denver, Colo. 80203. Gen. Mgr: Richard B. Belkin. Prgr: Good Music.
55) 50 Morrissey Blvd, Boston, Mass. 02125. Vice Pres. & Gen. Mgr: Harold E. Clancy. Prgr: Good Music. V. by QSL-card.
56) Box 10207, Knoxville, Tenn. 37919. Pres. & Gen. Mgr: James A. Dick.
57) Box 12526, Raleigh, N.C. 27605. Gen. Mgr: Carl Glicken.
58) 118 St. Clair Ave, East, Cleveland, Ohio 44114. Gen. Mgr: Jules Blum. Good Music, News.
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60) Norwegian Ave, Modesto, Calif. 95352. Pres. & Gen. Mgr: Hilda Higbee.
61) Box F, Pittsburg, Kan. 66762. Pres: E. Victor Baxter.
62) Box 251, Oak Hill, W. Va. 25901. Owner & Gen. Mgr: Robert Thomas Jr.
63) Roosevelt Hotel, New Orleans, La. 70140. Gen. Mgr: J. Michael Early. Prgr: Good Music, News, Classical Music. V. by QSL-card.
64) 51 W. 52nd St, New York, N.Y. 10019. Gen. Mgr: Joseph T. Dembo. Prgr: News. V. by QSL-card.
65) 360 N. Michigan Ave, Chicago, Ill. 60601. Vice Pres. & Gen. Mgr: Gene Taylor. Prgr: Rock'n'roll. V. by QSL-card.
66) Box 950, Fairbanks, Alaska 99701. Gen. Mgr: Teo Lehne. Prgr: Good Music, Rock'n'roll, News, Classical Music. V. by QSL-card.
67) T. W. Patterson Bldg, Fresno, Calif. 93721. Gen. Mgr: Ethan Berstein.
68) 100 Biscayne Tower, Miami, Fla. 33132. Vice Pres. & Gen. Mgr: Dick Kelsey. Prgr: Good Music.
69) Box 5008, Macon, Ga. 31208. Gen. Mgr: Albert H. Sanders Jr. Prgr: Good Music. V. by QSL-card.
70) Box 1007, Waipahu, Oahu, Haw. 96797. Gen. Mgr: Harry En Chu.
71) 215 Keo Way, Des Moines, Iowa 50309. Pres: Burrell Small.
72) Box 19124, New Orleans, La. 70119. Gen. Mgr: John Revisore. Prgr: News, Rhythm & Blues, Gospel.
73) 1009 William Clark Rd, Fayetteville, N. C.28303. Pres: Victor Dawson.
74) Box 5585, Tucson, Ariz. 85703. Vice Pres: & St. Mgr: Phil Richardson. Prgr: Rock'n'roll. V. by letter. Rp. Recordings accepted.
75) Box 12107, Memphis, Tenn. 38112. Gen. Mgr: E. W. Bie. Prgr: Country Music.
76) Radio WHOO Rd, Orlando, Fla. 32808. Vice Pres. & Gen. Mgr: Bob Hood.
77) Seven Penn Centre, Philadelphia, Pa. 19103. Vice Pres. & Gen. Mgr: Joseph T. Conway. Prgr: Rock'n'roll.
78) 228 Weybosset St, Providence, R.I. 02903. Pres: Alex M. Tanger. Prgr: News, Middle of the Road Music. V. by QSL-card. Recordings accepted.
79) 4400 Whittle Springs Rd. N. E. Knoxville, Tenn. 37917. Gen. Mgr: Pete Dreyer.
80) Box 787, Wichita Falls, Tex. 76307. Pres. & Gen. Mgr: Bob H. Walker.
81) Mariana City Commercial Bldg, 300 N. State St, Chicago, Ill. 60610. Mgr: Lew Witz. Prgr: Rock'n'roll.
82) 100 4th Ave, N, Seattle, Wash. 98109. Pres. & Gen. Mgr: W. W. Warren. Prgr: Good Music.
8(3 416 Union National Bank Bldg, Little Rock, Ark. 72201. Pres. & Gen. Mgr: Leonard Coe. Prgr: Country Music, Good Music. V. by QSL-card or letter. Recordings accepted. Rp.
84) 433 Natoma St, San Francisco, Calif. 94103. Gen. Mgr: Stanley Breyer. Prgr: Country Music.
85) Box 1010, Hillsboro Hotel, Tampa, Fla. 33601. Vice Pres. & Gen. Mgr: Hal Levin.
86) 217 Ponce de Leon Ave, Decatur, Ga. 30031. Pres: John Fulton. Prgr: Country Music. V. by QSL-card.
87) Box 1511, Meridan, Miss. 39301. St. Mgr: Eddie Smith.
88) Box 28, St. Louis, Mo. 63166. Gen. Mgr: Richard J. Kasten. Prgr: Country Music, rlg. prgrs. V. by letter.

89) 104 W. 8th St, Lexington, Neb. 68850. Gen. Mgr: Max Brown. Prgr: Good Music, Country Music, Talk, News, V. by letter. Recordings accepted. F.PL: 880kHz 50kW.
90) 90 Park Ave, New York, N.Y. 10016. Vice Pres. & Gen. Mgr: Peter E. Schroth. Prgr: News.
91) Box 158, Black Mountain, N.C. 28711. Gen. Mgr: Donald Bailey.
92) Box 482, Waco, Tex. 76703. Gen. Mgr: Del Morton. Prgr: Country Music.
93) 338 S. Western Ave, Los Angeles, Calif. 90005. Gen. Mgr: Roy M. Schwartz. Prgr: Country Music. V. by QSL-card.
94) Box 670, Roswell, N.M. 88201. Owner & Gen. Mgr: John A. Barnett.
95) 1 Gateway Cetner, Pittsburgh, Pa. 15222. Gen. Mgr: Bill Hartman. Prgr: Good Music.
96) 1170 Soldiers Field Rd, Boston, Mass. 02134. Gen. Mgr: James Lightfoot. Prgr: Good Music, Talk, News, Contemporary Popular Music. V. by QSL-card.
97) 402 S. Chaparri, Corpus Christi, Tex. 78403. Pres. & Gen. Mgr: Bob Kent.
98) 1100 Walnut St, Des Moines, Iowa 50308. Vice Pres. & Gen. Mgr: Robert Harter. Prgr: Good Music, Country Music, Talk, News. V. by QSL-card.
99) 400 Park Ave, New York, N.Y. 10022. Pres. & Gen. Mgr: John C. Moler. Prgr: Good Music.
100) Box 369, Chico, Calif. 95926. Gen. Mgr: Ned Richardson. Prgr: Good & Country Music, Talk, News, Soft background Music. V. by QSL-card.
101) 529 Bienville St, New Orleans, La. 70130. Mgr: Jack C. Fiedler. Prgr: Rock'n'roll.
102) 1619 Walnut St, Philadelphia, Pa. 19103. St. Mgr: Wallace Dunlop. Prgr: News. V. by QSL-card. Recordings accepted.
103) Box 1310, Birmingham, Ala. 35201. Vice Pres. & Gen. Mgr: Donald D. Wear. Prgr: Good Music, Talk, News, Classical Music. V. by QSL-card.
104) O'Grady Dr, Chattanooga, Tenn. 37409. Mgr: William Benns Jr.
105) 6121 Sunset Blvd, Los Angeles, Calif. 90028. Vice Pres. & Gen. Mgr: George Nicholaw. Prgr: Good Music. V. by QSL-card.
106) 2835 N. Illinois St, Indianapolis, Ind. 46208. Pres: Richard Fairbanks. Prgr: Good Music, Talk, News. V. by QSL-card.
107) Box 1402, Whicita, Kan. 67201. Pres. & Gen. Mgr: F. F. Lynch.
108) Box 12045, Memphis, Tenn. 38112. Vice Pres. & Gen. Mgr: Bert Ferguson. Prgr: Rhythm & Blues.
109) Box 100, Madison, Wisc. 53701. Vice Pres. & Gen. Mgr: Tony Moe.
110) Box 1080, Santa Cruz, Calif. 95060. Gen. Mgr: C. V. Berlin.
111) 3 Constitution Plaza, Hartford, Conn. 06115. Vice Pres. & Gen. Mgr: Ernest H. Peterson. Prgr: Good Music, Talks, News. V. by QSL-card.
112) 931 S. W. King Ave, Portland, Ore. 97205. Gen. Mgr: George Sanders. Prgr: Country Music, News. V. by letter.
113) 400 N. Griffin St, Dallas, Tex. 75502. Vice Pres, Gen. Mgr. & Sales Mgr: W. A. Roberts. Prgr: Good Music.
114) Box 491, Marietta, Ga. 30061. Gen. Mgr: James Wilder. Prgr: Good Music. V. by letter.
115) 377 Alhambra Cl, Coral Gables, Fla. 33134. Pres, Gen. Mgr. & Sales Mgr: Ted Niarhos. Prgr: Good Music, News, Soft background Music. V. by letter.
116) Box 1790, Little Rock, Ark. 72203. Pres. & Gen. Mgr: Pat Walsh Jr. Prgr: Good Music, Talk, News, Rhythm & Blues. V. by QSL-card.
117) 320 Aurora Ave. N, Seattle, Wash. 98109. St. Mgr: Gerald D. Gawne. Prgr: Good Music.
118) 3800 Hooper Ave, Baltimore, Md. 21211. Vice Pres. & Gen. Mgr: Alfred Burk. Prgr: Good Music, Talk, News, Classical Music. V. by QSL-card.
119) Box 6400, Jacksonville, Fla. 32205. Pres. & Gen. Mgr: Marshall Rowland. Prgr: Country Music.
120) 1470 Pine St, San Francisco, Calif. 94109. Pres. & Gen. Mgr: Judd Sturtevant. Prgr: Religious.
121) 384 Clinton St, Hempstead, N.Y. 11550. Gen. Mgr: Paul Godofsky.
122) 1403 E. 6th St, Cleveland, Ohio 44114. Gen. Mgr: Dino Janni. Prgr: Rock'n'roll.
123) 1401 S. Oak Knoll, Pasadena, Calif. 91602. Gen. Mgr: Lawrence Webb. V. by QSL-card. Recordings accepted.
124) 1902 W. Kennedy Blvd, Tampa, Fla. Pres: Robert M. Weeks.
125) 5010 Underwood Ave, Omaha, Neb. 68132. Vice Pres. & Gen. Mgr: Lyell Bremser.
126) 1 Julian Price Pl., Charlotte, N.C. 28208. Pres: Charles H. Crutchfield.
127) 1 Memorial Drive, St. Louis, Mo. 63102. Gen. Mgr: Robert Hyland. Prgr: Talk.
128) Box 1130, Shreveport, La. 71102. Gen. Mgr: Jack Timmons. Prgr: Good Music, Country Music, Talk, News, Rhythm & Blues. V. by QSL-card.
129) 18900 James Couzens Hwy, Detroit, Mich. 48235. Gen. Mgr. & Sales Mgr: H. Y. Levinson. Prgr. Good Music.
130) Box 6606, Minneapolis, Minn. 55420. Gen. Mgr: Dale G. Weber. Prgr: Rock'n'roll.
131) 565 Fifth Ave, New York, N.Y. 10017. Vice Pres. & Gen. Mgr: Robert Mounty. Prgr: Good Music.
132) 759 N. 19th St, Milwaukee, Wisc. 53233. Vice Pres. & Gen. Mgr: Herman A. Schneider. Prgr: Good Music, Talk, News. V. by QSL-card. Rp. Recordings accepted.
133) Box 6347, Sacramento, Calif. 95860. Pres. & Gen. Mgr: Manning Slater. Prgr: Country Music. V. by QSL-card. Rp. Recordings accepted.
134) 1448 N.W. 36th St, Miami, Fla. 33142.
135) Box 4278, Boise, Idaho 83705. St. Mgr: R. C. Weisenburger.
136) 205 N. Phillips Ave, Sioux Falls, S. D. 57102. Pres. & Gen. Mgr: Morton H. Henkin.
137) Box 1516, Richmond, Va. 23212. Vice Pres. & Gen. Mgr: John B. Tansey. Prgr: Good Music, Talk, News. V. by QSL-card. Recordings accepted.
138) 8 S. Michigan Ave, Chicago, Ill. 60603. Vice Pres. & Gen. Mgr: George Dubinetz. Prgr: Country Music.
139) Broadcast House, Salt Lake City, Utah 84111. Pres: Arch L. Madsen. Gen. Mgr: Joseph A. Kjar. Prgr: Good Music, News, Soft background Music. V. by QSL-card.
140) Box 2505, Montgomery, Ala. 36105. St. Mgr: Karl Richards.
141) Box 1629, San Diego, Calif. 92112. Vice Pres. & Gen. Mgr: Richard D. Casper. Prgr: Rock'n'roll.
142) Box 1349, Tulsa, Okla. 74105. Comm. Mgr: Jack Gresse. Prgr: Good Music, Talk, News, V. by QSL-card. Recordings accepted.
143) Hawley Bldg, Wheeling, W. Va. 26003. Gen. Mgr: Ross Felton. Prgr: Country Music. V. by QSL-card. Recordings accepted. Rp.
144) Box 6177, San Jose, Calif. 95150. Gen. Mgr: Bill Spendlove. Prgr: News, Rhythm & Blues. V. by letter. Rp.
145) 350 E. Ave, Rochester, N.Y. 14604. Pres. & Gen. Mgr: William F. Rust Jr. Prgr: Good Music, Soft background Music, Classical Music. V. by QSL-card. Recordings accepted.
146) 2130 S. W. Fifth Ave, Portland, Ore. 97201. Vice Pres. & Gen. Mgr: Fulton Wilkins. Prgr: Good Music, News, American Music. V. by QSL-card. Recordings accepted. Rp.
147) 2120 Commerce St, Dallas, Tex. 75201. Gen. Mgr: Al Lurie. Prgr: Rock'n'roll. V. by QSL-card. Re. to Chief Eng.
148) Box 631, Annapolis, Md. 21404. Pres. & Gen. Mgr: Morris H. Blum. Prgr: Rhythm & Blues.
149) 310 Lennox Ave, New York, N.Y. 10027. Pres. & St. Mgr: Harry Novik. Prgr: Rhythm & Blues.
150) 128 W. Washington Blvd, Ft. Wayne, Ind. 46802. Gen. Mgr: C. Vadagrift.
151) Box 2641. San Antonio, Tex. 78206. Vice Pres. & Gen. Mgr: Guy Harris. Prgr: Contemporary Music, Talk, News. V. by QSL-card. Rp.
152) City & Monument Aves, Philadelphia, Pa. 19131. Gen. Mgr: John O. Downey. Prgr: Talk.
153) 5200 State Rd, Saginaw, Mich. 48603. Pres. & Gen. Mgr: William J. Edwards.
154) Hotel Slater Hilton, 12th & Euclid Ave, Cleveland, Ohio 44101. Vice Pres. & Gen. Mgr: Carl E. George.
155) Box 167, San Jose, Calif. 95103. Gen. Mgr: Joe E. Levitt. Prgr: Good Music, News.
156) Broadcast House, 40th & Brandywine St. N.W, Washington, D.C. 20016. Vice Pres. & Gen. Mgr: Peter V. O'Reilly. Prgr: Good Music, some jazz.
157) 7441 Second Blvd, Detroit, Mich. 48202. Gen. Mgr: Leonard N. Sahle. Prgr: Good Music, Talk, News. V. by QSL-card. Recordings accepted.
158) 3415 University Ave, St. Paul, Minn. 55114. Vice Pres. & Gen. Mgr: Stanley S. Hubbard. Prgr: Good Music.
160) Box 1510, Mesa, Ariz. 85201. Gen. Mgr: Sheldon Engel. Prgr: Good Music, Country Music, Rock'n'roll, News. V. by letter.
161) Box 1031, New London, Conn. 06320. Pres. & Gen. Mgr: Gerald J. Morey. Prgr: Good Music, Talk, News. V. by QSL-card. Recordings accepted.
162) 161 4th Ave. N, Nashville, Tenn. 37219. Vice Pres. & Gen. Mgr: James M. Ward. V. by QSL-card.
163) Box 141, Spokane, Wash. 99210. Pres: Grady A. Sanders
164) 330 Wisconsin Ave, Waukesha, Wis. 53186. St. Mgr: P. D. Walter G. Smith.
165) Box 1520, Port Hueneme (Suburb of Oxnard) Calif. 93030. Gen. Mgr: Ronald Thompson.
166) 1430 Main St, Buffalo, N.Y. 14209. Gen. Mgr: Peter C. Newell. Prgr: Good Music, News. V. by QSL-card. Rp.
167) 266 Maple Pl, Mineola, N.Y. 11501. Gen. Mgr: Richard L. Winslow.
168) Box 1520, Oklahoma City, Okla. 73101. Gen. Mgr: James Erwin. Prgr: Rock'n'roll, Rhythm & Blues, News. V. by letter. Rp.

170) Box J. Lafayette, La. 70501. Vice Pres. & Gen. Mgr: James V. Hoffpauir. Prgr: Country Music.
171) 21st & Q, Sacramento, Calif. 95813. Mgr: Arthur C. Williams. Prgr: Good Music, News. V. by QSL-card. Recordings accepted.
172) 501 Carew Tower, Cincinnati, Ohio 45202. Exec. Vice Pres: Jeanette Heinze. Prgr: Good Music.
173) Drawer 711, Harlingen, Tex. 78551. Vice Pres. & Gen. Mgr: Lloyd Elliot.
174) Box 2049, Ft. Worth, Tex. 76115. Gen. Mgr: Roy L. Lemons. Prgr: Rock'n'roll.
176) Box 2395, Waterloo, Iowa 50705. Vice Pres. & Gen. Mgr: Al Laval. V. by QSL-card. F. PL: 100kW.
177) 4243 Albany St, Albany, N.Y. 12205. St. Mgr: Richard F. Schlinger. Prgr: Rock'n'roll.
178) 2043 Locust St, Philadelphia, Pa. 19103. Prgr. Dir. Don Paul. Prgr: Country Music.
179) 1445 W. Baseline Rd, Phoenix, Ariz. 85009. Pres. & Gen. Mgr: George Wilson.
180) St. Francis Hotel, San Francisco, Calif. 94119. Vice Pres. & Gen. Mgr: Elmer Wayne. Prgr: Classical Music. V. by QSL-card.
181) Box 389, 1550 W. 22nd North, Salt Lake City, Utah 84110. Pres. & Gen. Mgr: Frank C. Carmen.
182) 777 N.W. 54th St, Miami, Fla. 33127. Press W. R. Sudbrink. Prgr: Good Music.
183) Box 1967, Mobile, Ala. 36601. Pres. & Gen. Mgr: Samuel David. Prgr: Rhythm & Blues.
184) Box 1, Arvada, Colo. 80002. Gen. Mgr: Norma Behm.
185) Box 1754, Shreveport, La. 71102. Pres: S. J. Hepburn. Prgr: Rhythm & Blues.
186) Box 639, Bennettsville, S.C. 29512. Vice Pres. & Gen. Mgr: A. K. Harmon.
187) Box 3228, Jackson, Miss. 39207. Pres: John M. McLendon. Prgr: Rhythm & Blues.
188) Box 1988, Tampa, Fla. 33601. Pres. & Gen. Mgr: Art Reuben.
189) Box 526, Smyrna, Ga. 30080. Pres: L. N. Polk.
191) Box 1709, Bakersfield, Calif. 93302. Mgr: L. A. Schamblin. Prgr: Good Music, Country Music, News, Soft background Music. V. by QSL-card. Rp. Recordings accepted.
192) 229 W. 243rd St, New York, N.Y. 10036. Gen. Mgr: W. Neiman. Prgr: Good Music, Talk, News, Classical Music. V. by QSL-card.
193) Box 26907, Santa Monica, Calif. Gen. Mgr: Clark W. Davis. Prgr: Rhythm & Blues.
195) Box 759, Lexington, Ky. 40501. Pres. & Gen. Mgr: Robert Johnson.
196) Box 717, Patchogue, L. I, N.Y. 11772. Pres. & Gen. Mgr: James Putbrese.
197) Box 8550, Washington, D.C. 20027. Vice Pres. & Gen. Mgr: Robert Howard. Prgr: Rock'n'roll.
198) Box 8067, Ft. Lauderdale, Fla. 33310. Pres: Gene Milner. Prgr: Rock'n'roll. V. by letter.

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(A division of American Broadcasting Companies Inc.)
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For executives of parent company, see television listings.
ABC-owned stations: WABC, New York, (Pres: H. Neal Jr.); KABC, Los Angeles; KGO, San Francisco; WXYZ, Detroit KQV, Pittsburgh; WIS, Chicago; KXYZ, Houston.

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CBS owned and operated stations: WCBS, New York; WBBM, Chicago; KCBS, San Francisco; KMOX, St. Louis; KNX, Los Angeles; WEEI, Boston; WCAU, Philadelphia.

NBC RADIO NETWORK

(A division of National Broadc. Co.)
ADDR: 30 Rockefeller Plaza, New York, N.Y. 10020. L.P: Pres: Arthur A. Watson. Vice Pres. Sales: G. H. Gallup. Vice Pres. Programming: R. Wogan. Vice Pres. R. Div: Marion Stephenson. For executives of parent company, see television listings.
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MUTUAL BROADCASTING SYSTEM INC.

(Subs. of Mutual Broadcasting Corp.)
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ADDR: 665 Fifth Ave, New York, N.Y. — L.P: Chmn. of the Board: Joseph D. Coons. Pres: Abe Voron. Sec: Edward S. Kenehan. Adm. Dir: Karen Layland. Vice Pres: John L. Richer. Treasurer: Morton Marks.
PURPOSE: To promote the development of FM radio. A group of independent FM broadcasters formed the NAFMB to deal with the special problems of the FM broadcast industry. NAFMB has been involved in projects related to the following concerns of the FM industry: support for the Federal Communication Commission's separate programming policy for combined AM and FM operations; launched campaign for car radios; set in motion "all-channel" legislation which would require that all radio sets sold in the U.S. be capable of FM reception. These are merely a few of the efforts being initiated under strong leadership and the active interest of NAFMB members. The NAFMB offers continuing services of research, program information, promotion, engineering, management and F.C.C. liaison specifically related to the FM industry.
FM is making strides and for the first time is being accepted as "commercial radio" by advertisers. FM offers an extensive variety of programming formats; it's a mass medium for everyone. There have also been strides in stereo and 788 FM stations in the U.S. currently broadcast in stereo.

EDUCATIONAL ORGANIZATIONS

Department of Health, Education and Welfare, Office of Education, Washington, D.C. 20202; Office of the Under Secretary: I. A. Nestingen.
The Educational Television Facilities Programme designed to encourage establishment of new and improved broadcast facilities through financial grants based on matching funds.
Office of Education, Media Research and Dissemination Branch, Ag. Dir: Th. D. Clemens. Educ. Media Specialist: Mrs. G. Broderick, provides a variety of services by professional staff specialists to schools and college officials, st. operators, and others, as requested. Under Title VII of the National Defense Education Act, finances research and experimentation in the educ. uses of all media; disseminates information on the subject through conferences, seminars, workshops, and publication of pertinent bulletins.

NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS (NAEB)

Headquarters: 1346 Connecticut Ave, Washington, D.C. 20036. Te: (202)667-6000 — L.P: Pres: W. G. Harley; Asst. to Pres: James A. Fellows; Exec. Dir. of TV: Chalmers Marquis; Exec. Dir. of Radio: Gerrold Sandler.
Formed in 1925 as the Association of College and University Broadcasting Stations, the National Association of Educational Broadcasters today includes four divisions — the Educational TV Stations, National Education Radio, Instructional Division (through which the NAEB serves universities, colleges, schools and educational organizations which operate licensed or closed circuit stations) and the Individual Member Division (which serves the professional career needs of those in educational broadcasting). Since 1950, the NER division has operated a tape network, supplying member st's with programming material not only from member's but also from domestic and foreign producers like the BBC, the CBC, the RAI, Radio Nederland, Radio Belgium and the French Broadcasting System. The ETS division operates the ETS Program System, The Indiana University, to make available outstanding locally-produced programs on a nationwide basis. This service, together with that of National Educational TV, an independent organization primarily responsible for production and distribution of cultural and public affairs, programmes, provides educational TV station with programming. The ETS division also published a monthly newsletter for ETV station managers—The ETS News. There are now 163 radio st. members, 134 TV st. members. In addition, the NAEB has 2400 individual members. According to FCC regulations, non-comm. educational FM st's have no restrictions on transmission time.

THE NORTH-AMERICAN BROADCASTING CORPORATION

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(A division of North-American Broadc. Corpo).
ADDR: The Jackson Bldg, 1929 Irving St, San Francisco, Calif. 94122. Te: 731-6639. Cable: Broadc — L.P: Operations Mgr: James H. Greenwood. Gen. Mgr: Michael K. Erickson,

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How? Simple. When you join the Club, you receive an impressive membership certificate, and are entitled to specially-designed Club report forms as well as other Club offers. But most important, each member receives a unique publication . . . The **Radio Worldwide** magazine . . . every two months. Each issue of the Club magazine is jam-packed with what you want to read and know about in the world of communications. Each issue contains valuable information such as DX tips, news of radio and electronics, technical data, and communications news features. In the past, we've had such feature stories as "Communications on the Moon" and "Television and the Space Race", with more to come.

Interested? If you live outside the United States, joining us is as easy as sending the equivalent of one dollar ($US) in the currency of your country. If you like, send us that amount in International Reply Coupons, check, money order or domestic money order (in the United Kingdom, value equivalent to $1.00 is 8/4d and crossed). If you live in the United States, and wish to join, send $2.00 for a one year membership. That will entitle you to be a member of the **Listeners Club.** Then maybe you'll see why so many international listeners know what's happening.

We can do a lot for you . . . you can do a lot for yourself.

What are you waiting for?

Write to the Club today . . . The **Radio Worldwide Listeners Club,** New York 10022, USA

The Listeners Club WNYW
Dept. 102
• 485 Madison Avenue
New York 10022, USA

Name_____

Address_____

News Dir: Michael R. Caffee. Prgr. Dir: R. K. Rand. (NABC — Public Radio).

Headquarters: Jackson Bldg, 1929 Irving St, San Francisco, Calif. 94122. Te: 731-6630. (Transcription Sce, Telefilm Distribution Center & Netw. at above address). L.P: Chmn. of Board of Dir's: Allan Bruce Erickson. Departmental Heads: Gen. Mgr. (Radio): Michael K. Erickson. Transcription Sce: Cathy Myers. Engineering: Ron V. Pelt. TV-Department: James E. Hunt. International Relations: Sandy Harris.

Stations: 463 educational organzations owning and operating a total of 806 st's (radio) and 43 st's (television), such st's being full members of the NABC. Plus 217 st's (radio) operated commercially which relay programs from NABC on a sustaining (non-commercial) basis. Such st's have Associate Membership.

Fi: By Membership Fees. Also support from outside sources for special projects.

Activities & Functions: The NABC operates both a network and a Transcription Sce, which duplicates, via tape and distributes to member stations seven hours of programming per week (average). NABC maintains close relations with many international broadcasters and participates actively in program exchanges, news projects and cultural affairs. Several overseas broadcasters release programs through the NABC and these include the NZBC and ORTF. NABC is a Charter Corporate Member of the I.B.S.

Policy: It is the policy of the NABC to promote international goodwill, cultural exchanges and better programming in the public interest and in the interest of international understanding. The NABC is independent politically and financially from any government and endeavours to present a fair, impartial and objective viewpoint on world issues. Its programming policies attract new listeners because of balanced content, creating cultural interest where none existed before. Its long-term plans include the establishment of a Production/Announcing and General Training Center for personnel, a Drama Repertory Company, Symphony, Concert and Light Music Orchestras (House Orchestras) and overseas offices and studios.

Regional Centers: Northfield, Minnesota (Mgr: P. Peterson); Delaware, Ohio (Mgr: Gaukel); Provo, Utah (Mgr: Lee Stott); New York, N.Y. (Mgr: Dr. H. Chesnais); Pacifica, California (Mgr: Dr. W. R. Cleaves).

Overseas Prgr. Exchange Sce: P.O. Box 94122, San Francisco. Head: Mr. T. R. Fischer.

Official Publication: NABC JOURNAL is distributed to all Radio and TV st's in USA and Canada free of charge. NABC JOURNAL serves to inform stations of activities within public broadcasting in the USA, on new technical products and various NABC activities. (Color, 68 pages. Issued Monthly) — **Publisher:** Teragram Prodns, P.O. Box 1408, Los Altos, California 94022.

GOVERNMENT AGENCY:
THE FEDERAL COMMUNICATIONS COMMISSION (FCC)

the licensing agency for broadc. st's.

ADDR: 1919 "M" Street N.W, Washington, D.C. 20554. **L.P:** (key officials): Chmn: Rosel Hyde, Exec. Dir: M. D. Paglin. Secr: B. F. Waple. Chief, Broadcast Bureau: G. S. Smith. The FCC is an independent Federal agency, composed of seven Commissioners appointed by the Pres. by and with the advice and consent of the Senate. One of its major activities is the general regulation of broadc, now visual as well as aural. This regulation may be divided into three phases: 1) The allocation of spectrum space to the different types of broadcast services, 2) Considerations to build and operate individual stations, 3) Regulating their operation.

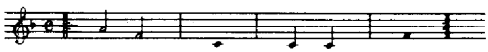
Call letters: International agreement provides for the identification of the radio st. by the first letter or first two letters of its assigned call signal, and for this purpose apportions the alphabet among different nations. USA st's use the initial letters KN and W, exclusively, and part of the A series. Broadcast st's are assigned call letters beginning with K or W. Generally speaking, those beginning with K are assigned to st's west of the Missisippi River and in the territories and possession, while W is assigned to broadcast st's east of the Missisippi.

Number of broadcasting st's as of **May 1st, 1969:**

	Authorised	Operating
AM	4309	4216
FM Commercial	2149	1982
FM Education	407	367
TV Commercial (UHF)	334	1721
TV Commercial (VHF)	520	506
TV Educational (UHF)	112	100
TV Educational (VHF)	77	76
TV Translators (UHF)	801	686
TV Translators (VHF)	1762	1579

UNITED NATIONS

UNITED NATIONS RADIO
ADDR: United Nations, New York. **Cable:** Unations, New York. **Te:** Plaza 4-1234. Telex 222422 — **L.P:** Asst. Secr. Gen, Office of Public Information: A. Abdul Hamid. R. & Visual Services Div: Dir: J. de'Arcy. Deputy Dir: D. Ritchie. Chief of Operations & TV: M. Hayward. Chief of Radio: C. Ortiz-Tinoco. Chief of International Communications: J. C. Nichols.
INT-SIG: Music Chime.



ANN: "This is the United Nations". This introductory phrase is used in all official UN prgrs. in all of the languages concerned.
Message to listeners: The R. & Visual Services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. Upon request, new correspondents are sent a prgr. sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the schedule of UN broadcasts should be addressed to the Director of the nearest UN Information Centre. These are located in Accra, Addis Ababa, Algiers, Asuncion, Athens, Baghdad, Bangkok, Beirut, Belgrade, Bogota, Buenos Aires, Bujumbura, Cairo, Colombo, Copenhagen, Dakar, Dar Es Salaam, Geneva, Kabul, Karachi, Kathmandu, Khartoum, Kinshasa, Lagos, La Paz, Lima, Lomé, London, Manila, Mexico City, Monrovia, Moscow, New Delhi, Paris, Port Moresby, Port-of-Spain, Prague, Rabat, Rangoon, Rio de Janeiro, Rome, San Salvador, Santiago, Sydney, Tananarive, Teheran, Tokyo, Tunis, Washington, Yaounde.
Request for copies of the sched. of UN broadc, which can be heard in the United States should be addressed to: Radio and Visual Services Divisions, United Nations, New York.
BROADCAST FROM THE UNITED NATIONS
G = Greenville; T = Tangier; B = Bethany; D = Delano; DI = Dixon; M = Monrovia; P = Philippines; I = We. Ce. and So. Europe; II = We. and Ce. Africa; III = No. Africa/Mid. East; IV = Latin America; V = Brazil; VI = Ce. and So. Africa; VII = So. Europe/Mid/East/No. Africa; VIII = We. Africa; IX = Ea. Africa; X = Malaysia/Singapore; XI = Australia/New Zealand; XII = So. Ea. Asia — *)Mon-Fri; † = Tues-Sat.

Schedule

Times	Area	kHz/tr	L
18.00-18.30*	I	15370/15410/21650(G), 21455(T)	a
18.30-18.45*	II	15370/15410/21650(G)	b
18.45-19.00*	III	15370/15410/21650(G), 15245(T)	Arabic(N)
00.30-01.00†	IV	9640(G), 11740/15160(B)	Spanish
01.00-01.15†	V	11890/15250/17705(G)	Portuguese(N)
02.30-02.45†	X	17830/21570(P)[1]	English
05.30-06.00†	VI	6055/9530/11845(G)	c
06.30-07.00†	VII	9545/11790(T)[2]	d
07.00-07.15†	VIII	9530/11845(G)	e
07.45-08.00†	IX	17705/21520(M)[3]	f
08.45-09.00†	XI	5955/9730(D)	English
10.00-10.30†	XII	15225/17825(P)[4]	g
10.30-10.45†	XII	15250(P)[4]	Chinese(N)
10.45-11.00†	XII	15250(P)[4]	Indonesian(N)

[1] = transmitted to P on 17850kHz(DI)/21460kHz(D) — [2] = transmitted to T at 05.00 on 6055/9530/11845kHz(G) — [3] = transmitted to M at 07.15-07.30 on 9530/11845kHz(G) — [4] = transmitted to P at 06.30-07.30 on 9545kHz(D) & 11865kHz(DI).
a = N: English 18.00, French 18.05, Spanish 18.10, Greek 18.15, Turkish 18.20, English 18.25 — b = N: English 18.30, French 18.35, Spanish 18.40 — C = N: French 05.30, English 05.45 — d = N: English 06.30, Hebrew 06.35, French 06.40, Italian 06.45, Serbo-Croat 06.50 — e = N: French 07.00, English 07.07 — f = N: English 07.45, Swahili 07.50 (Sat 07.50), Somali 07.55 (Sat only) — g = N: English 10.00i Tagalog 10.10, Thai 10.20.
BROADCAST OF MEETINGS OF THE GENERAL ASSEMBLY AND THE SECURITY COUNCIL WHEN IN SESSION.

AM Meeting	kHz (Beam)	tr
15.30-18.00 to Europe/Africa[5]	15410 (45°), 21650 (94°)	G
14.30-17.00 to Latin America[6]	17745/21515 (168°)	B
PM Meeting		
20.00-23.00 to Europe/Africa[5]	15415 (45°)/21650 (94°)	G
23.00-01.00 to Europe/Africa[5]	15410/15415 (94°)	G
23.00-09.00 to Europe/Africa[5]	6055 (45°)	G
20.00-22.00 to Latin-America[6]	21515 (168°)	B
PM Meeting	**kHz (Beam)**	**tr.**
20.00-01.30 to Latin-America[6]	17860 (168°)	B
01.30-04.00 to Latin-America[6]	11810 (168°)	

[5] = in English and French; [6] = in Spanish.
Prgr's from the United Nations are broadcast by st's in more than 120 countries and territories. The times of these broadcasts may be ascertained from local newspapers or from the stations concerned — R. st's in the US and Canada receive the prgr's direct by line from the Nations Headquarters or by recording — The R. and Visual Services Division prepares and distributes recorded prgr's in Amharic, Arabic, Bengali, Chinese, Duri, Dutch, English, French, German, Greek, Hebrew, Hindi, Hungarian, Indonesian, Italian, Malay, Malgache, Persian, Polish, Portuguese, Pushtu, Russian, Serbo-Croat, Sinhalese, Spanish, Swahili, Tagalog, Thai, Turkish and Urdu.
Letters from listeners are welcome.
New listeners are sent some general information about the United Nations upon request — Correspondence and request for particulars of the United Nations broadcasts from Headquarters should be addressed to: Radio and Visual Services Division, United Nations, New York.

CENTRAL AMERICA

BAHAMAS (British)

L.T: GMT-5h — **Pr.L:** English — **E.C:** a/c 60 (yes).

BAHAMAS BROADCASTING AND TELEVISION COMMISSION (Gov. Comm.)
ADDR: P.O. Box 1347, Nassau. **Te:** 2-4623. **Cable:** ANS, Nassau — **L.P:** Mgr: R. Bethel. Dir. Tec: L. Cartwright. Adm. Officer: W. N. Wisdom.
STATIONS: ZNS1 1540kHz 10kW — ZNS2 1240kHz 1kW.
HOME SCE: On 1540kHz: 24 h — N: 13.15, 18.15, 00.15. On 1240kHz: 12.00 (Sun 13.00)-04.00.
ANN: "This is station ZNS-1, the Voice of the Bahamas". "This is ZNS2, the Voice of New Providence" — V. by letter.

BARBADOS

L.T: GMT — 4 h — **Pr.L:** English — **EC:** a/c 50 (yes).

CARIBBEAN BROADCASTING CORPO. (Gov. Comm.)
ADDR: P.O. Box 780, Barbados. **Te:** 92041. **Cable:** Cabroco
L.P: Gen. Mgr: I. Gale. Dir Tec: G. Taylor.
STATION: 785kHz 382.2m 10kW.
HOME SCE. in English: 09.30-06.00 — N: 10.50, 11.00*, 12.00, 13.00*, 14.00, 15.00, 16.00*, 17.00*, 18.00, 19.00, 20.00*, 21.00*, 22.00, 23.00*, 00.00, 01.00, 03.00* — *) = BBC.
ANN: "This is R. Barbados, 780 on your dial" — V. by letter. Rp — FI: By adv — AD: 12 min's per h.

BARBADOS REDIFFUSION SERVICE LTD. (Public Co.)
ADDR: River Rd, Bridgetown. **Te:** 0811. **Cable:** Rediffusion
L.P: Gen. Mgr: F. G. Duesbury. Dir. Tec: J. S. Marshall.
D.Prgr: 09.58-03.03 — N (BBC): 11.00-16.00, 21.00, 23.00, 03.00.

COSTA RICA

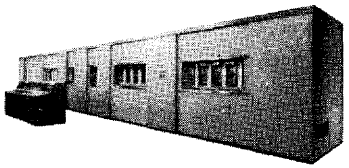
L.T: GMT — 6h — **Pr.L:** Spanish — **EC:** a/c 60 (yes).

DEPARTAMENTO CONTROL NACIONAL DE RADIO
ADDR: Apt. 3483, San José. **Cable:** Ranac. **Te:** 7339.

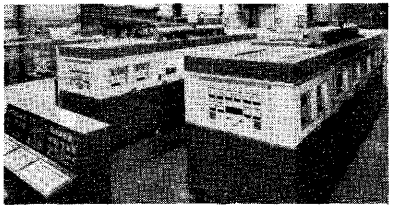
EMPRESARIOS RADIODIFUSORAS ASOCIADOS (ERA)
ADDR: Apt. Postal 111, San José.
STATIONS: All st's comm. exc. 16), 31), (Rlg), 12) (cultural).
Medium Waves. Call: TI—, °) also on shortwave.

	Call	kHz	kW	Name and Location
1)	CAL	525	0.25	R. Rumbo, Cartago
2)	SBJ	550	2	R. Libertad, San José
3)	WA	575	5	Cadena Musical, San José
4)	AV	600	1	R. Tic Tac, San José
5)	RICA	°625	50/100	La Voz de la Victor, San José
6)	BAS	650	1	R. Monumental, San José
3)	JC	675	5	R. Sondra, San José
7)	HB	°700	2	R. Reloj, San José
8)	LX	725	1	R. Columbia, San José
9)	RA	750	1	Radiolandia, San José
10)	W	775	4.5	R. City, San José
11)	GHP	800	3.5	R. Centro, San José
12)	OS	825	1.5	R. Titania, San José
13)	UCR	850	10	R. Universitaria, San Pedro
14)	SRHB	°875	1	R. Popular, San José
15)	CS	°900	6	R. Atenea, San José

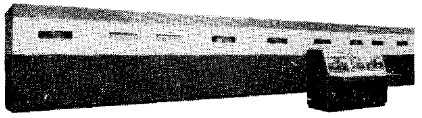
Continental Electronics



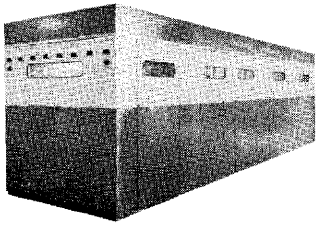
1,000,000 WATT AM MF TRANSMITTER
Continental designed and built the first super-power transmitter for the Voice of America. Delivering 1,000,000 watts of continuous power to the antenna, it was installed at Munich in 1953. Similar Continental 1,000,000 watt broadcast transmitters are installed in Okinawa, the Philippines, Thailand, Central America and Egypt.



1,000,000 WATT AM MF TRANSMITTER
Continental's newest 1,000,000 watt transmitter during construction, factory test early in 1968.

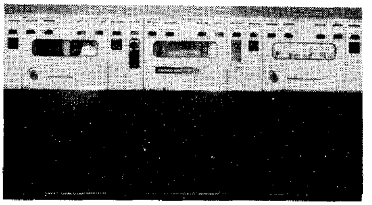


500,000 WATT AM MF TRANSMITTER

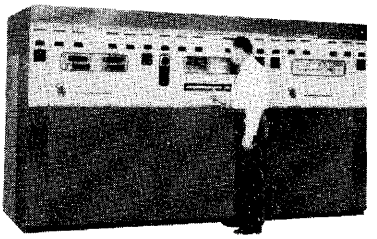


250,000 WATT AM MF TRANSMITTER

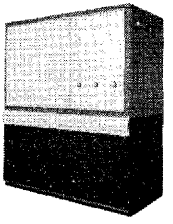
200,000 WATT AM MF TRANSMITTER
Two Continental 100,000 watt transmitters combined for 200,000 watt output.



100,000 WATT AM MF TRANSMITTER



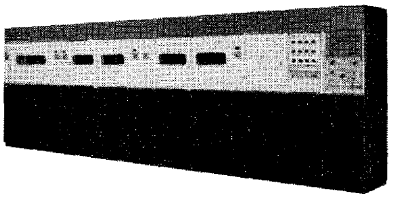
50,000 WATT AM MF TRANSMITTER



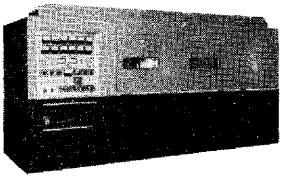
10,000 WATT AM MF TRANSMITTER

specialists in high-power broadcasting

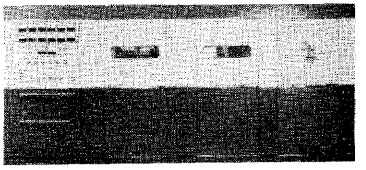
500,000 WATT AM HF TRANSMITTER



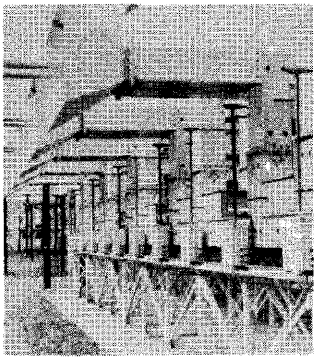
250,000 WATT AM HF TRANSMITTER



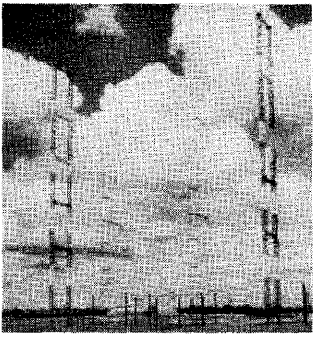
100,000 WATT AM HF TRANSMITTER



50,000 WATT AM HF TRANSMITTER



TRANSMISSION LINE SWITCHING MATRIX

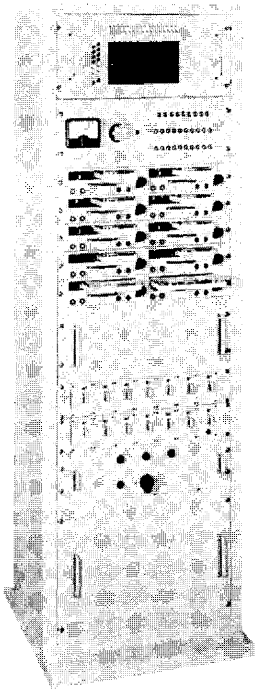


Continental has gained worldwide experience in the design, engineering, development, construction and installation of specialized broadcast systems and components. This equipment includes: specialized antenna systems, transmitter dummy loads, phasing and coupling equipment and combiners for a wide range of transmitter power levels.

When you need high power broadcast equipment, come to the specialists! For information, write: A. V. Collins, International Broadcasting, Continental Electronics Mfg. Co., Box 17040, Dallas, Texas 75217.

Continental Electronics

MAIL ADDRESS: BOX 17040/DALLAS, TEXAS 75217



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- Continuous playback completely automatic
- Tape storage for 6 hours playback without change cartridges
- Maximum time pre-set program 24 hours
- Unlimited working in the Broadcasting-TV stations
- Unlimited possibility sequence arrangement with insertion line microphone etc.

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APPEL

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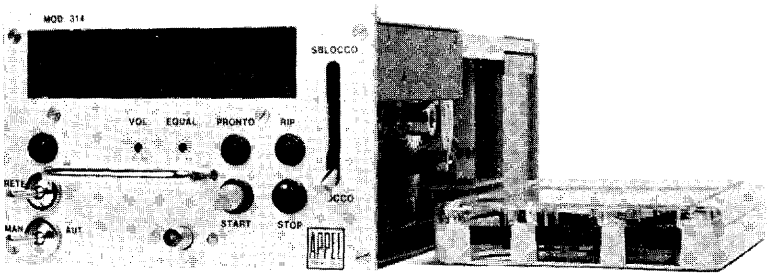
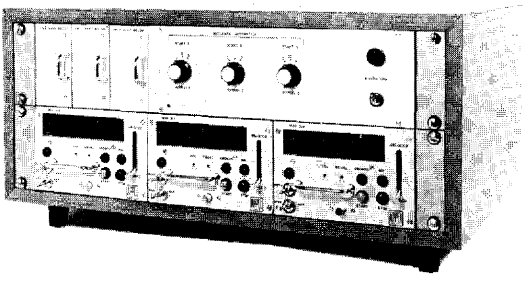


Model 314

the most little endless tape reproducer.
professional performance – remote control.
designed both table or rack mount installation.



Model 3 x 314 - SS

assembly of 3 professionals reproducers
manual or automatic sequential operation.
transistorized plug-in modules.

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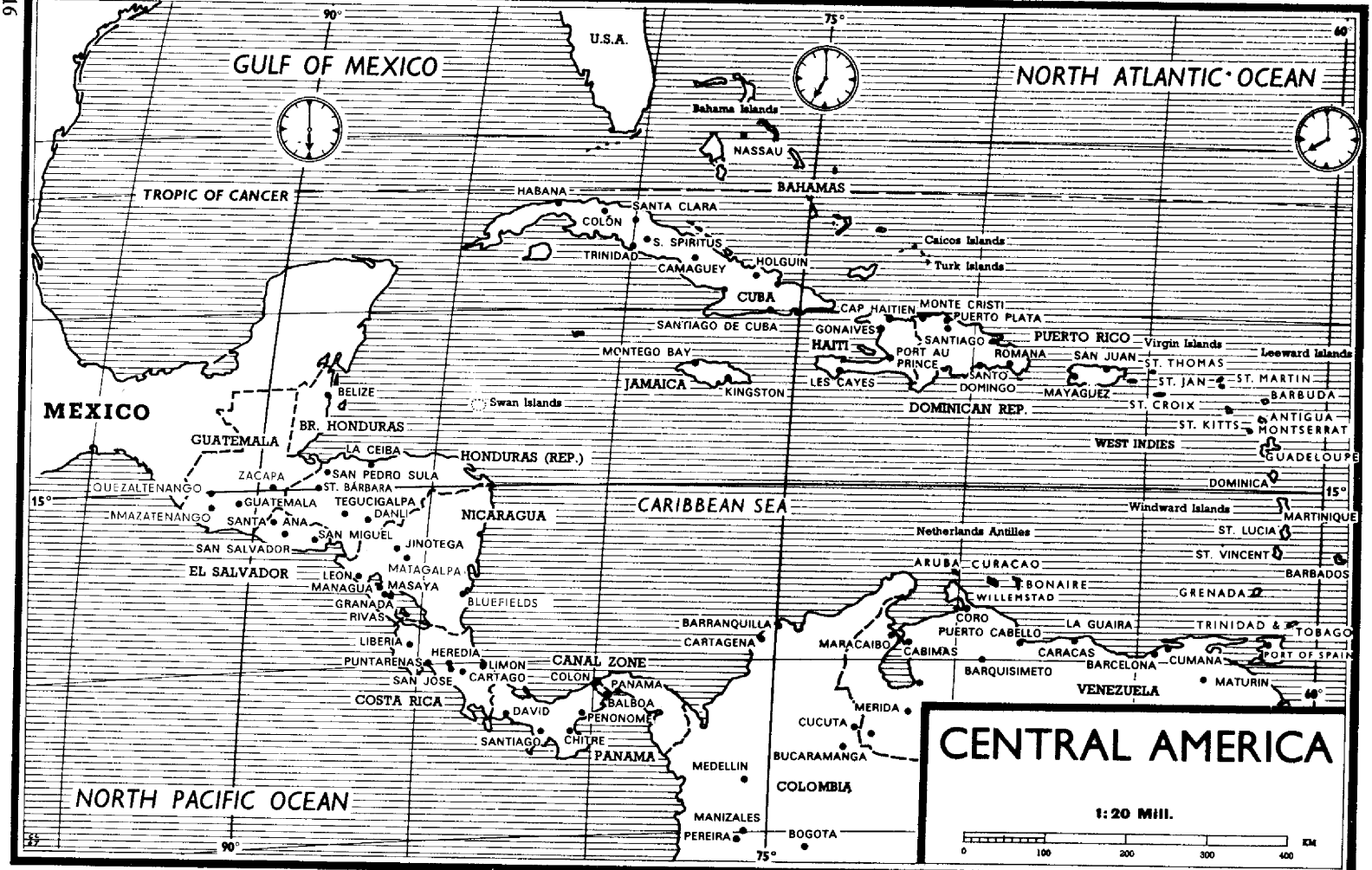
RSI

(RSI is a division of Billboard Magazine.)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NORTH ATLANTIC OCEAN
NORTH PACIFIC OCEAN
CARIBBEAN SEA
U.S.A.
Bahama Islands
NASSAU
BAHAMAS
TROPIC OF CANCER
HABANA
SANTA CLARA
COLÓN
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MEDELLIN
COLOMBIA
MANIZALES
PEREIRA
BOGOTA
MEXICO
BELIZE
Swan Islands
BR. HONDURAS
GUATEMALA
LA CEIBA
HONDURAS (REP.)
SAN PEDRO SULA
ZACAPA
QUEZALTENANGO
ST. BÁRBARA
GUATEMALA
TEGUCIGALPA
AMAZATENANGO
SANTA ANA
DANLI
NICARAGUA
SAN MIGUEL
SAN SALVADOR
JINOTEGA
EL SALVADOR
MATAGALPA
LEON
MANAGUA
MASAYA
GRANADA
RIVAS
BLUEFIELDS
LIBERIA
HEREDIA
PUNTARENAS
LIMON
CANAL ZONE
SAN JOSE
CARTAGO
COLON
PANAMA
BALBOA
COSTA RICA
DAVID
PENONOME
SANTIAGO
CHITRE
PANAMA
90°
75°
60°
15°
CENTRAL AMERICA
1:20 Mill.
0
100
200
300
400
KM

	Call	kHz	kW	Name and location
3)	CM	925	2	R. Juvenil, San José
16)	ECO	950	1	R. Eco, Tibás
15)	RS	°975	4	R. Atenea, San José
6)	GPH	1000	1	R. Mil, Tibás
17)	AC	1025	2	R. Fides, San José
6)	GHP	1050	1	R. Monumental, San I. de El General
18)	FC	°1075	5	Faro del Caribe, San José
8)	RN	1100	1	R. Columbia, San I. de El General
6)	GHP	1150	1	R. Monumental, C. Quesada.
8)	CA	1175	2	R. Columbia, Puntarenas
19)	Q	°1200	1	R. Casino, Limón
20)	GM	1225	1	R. Victoria, Cartago
6)	LM	1250	1	R. Monumental, Nicoya
21)	RE	1275	1	R. Emmaus, San Vito de Java
22)	JJH	1300	1	R. Alajuela, Alajuela
6)	RG	1325	1	R. Columbia, Liberia
23)	JRA	1350	1	R. Sideral, San Ramón
6)	MAR	1375	1	R. Monumental, Limón
24)	LG	1400	1	R. Cariari, Limón
25)	CJ	1425	1	R. Sinai, San I. de El General
26)	MMC	1450	1	R. Golfito, Golfito
27)	DVC	1475	1	R. San Carlos, C. Quesada
6)	L3	1500	1	R. Monumental, Liberia
28)	EEAW	1525	1	R. Turrialba, Turrialba
29)	MET	1550	2	R. Meteorológio, San José
6)	JJC	1575	1	R. Monumental, Palmares
30)	ACA	1600	1	La Voz de Costa Rica, San José

Short Waves: Call: TI---.

	Call	kHz	m	kW	Name and h of tr
14)	RHB2	4784	62.71	1	R. Popular, San José: 12.00-06.00
19)	Q	5954	50.39	1	R. Casino, Limón: 11.55-06.00
18)	FC	6037	49.69	2	Faro del Caribe, San José: 12.00-19.00, 22.00-04.00
15)		6150	48.78		R. Atenea, San José: 24h
31)	JCV	6150	48.78	1	R. Guapiles: 12.00-06.00
7)	HBG	6206	48.33	1	R. Reloj, San José: 12.00-06.00
5)	RICA	9615	31.20	50	La Voz de la Victor, San José: 12.00-06.00
18)	FC	9645	31.10	2	Faro del Caribe: as 6037kHz

Addresses & other information:

1) Cartago. L.P: Dir: C. Lafuente F.
2) Apt. 4075, San José. L.P: Dir: S. Bermudez J.
3) Apt. 854, San José. L.P: Dir: J. Castro C. (TIJC R. Sondra, TICM R. Juvenil). V. by letter. Rec. acc.
4) San José. L.P: Dir: A. Vargas.
5) Apt. 1079, San José. Te: 510622. Cable: Voz Victor L.P: Dir. Gen: F. March Pinto. Dir. Tec: B. Denis. D.Prgr: N: every half h and h 12.00, 17.00, 21.00, 03.00. FM: 102. 1MHz 0.25kW. V. by QSL-card. Rec. acc.
6) Apt. 800, San José. L.P: Dir: L. Pinto S. (650 San José, 875 Liberia, 1000 R. Mil, Tibás, 1050 San I. de El General, 1150 C. Quesada, 1250 Nicoya, 1375 Limón, 1500 Liberia, 1575kHz Palmares).
7) Apt. 341, San José. L.P: Dir: R. Barahona G. V. by letter.
8) Apt. 708, San José. L.P: Dir: C. Alfaro (725 San José, 1100 San I. de El General, 1175kHz Puntarenas).
9) Apt. 2525, San José. L.P: Dir: R. Aguilar V.
10) Apt. 835, San José. L.P: Dir: A. Murolo C.
12) Apt. 512, San José. L.P: Dir: M. Sotela.
13) San Pedro. L.P: Dir: I. Bonilla.
14) Apt. 341, San José. Te: 5607. L.P: Dir: R. Barahona. Secr: Miss M. C. A. Barahona. D.Prgr: N: every h on the h. V. by QSL-card. Re. in Sp, E.
15) Apt. 2208, San José. Te: 225729. L.P: Dir: O. Sotela. V. by letter.
16) Tibás. L.P: Dir: J. F. Lafuente.
17) Apt. 1933, San José. L.P: Dir: P. A. Troyo.
18) Apt. 2710, San José. Te: 214029. L.P: Dir. Gen: A. Muñoz M. Mgr: F. Picado O. Dir. Tec: R. Remington. V. by QSL-card and letter. Rec. acc. Rp.
19) Apt. 287, Puerto Limon. L.P: Dir: L. Villalobos. V. by letter.
20) Cartago. L.P: Dir: R. Castro.
21) San Vito de Java. L.P: Dir: M. Cambronero.
22) Alajuela. L.P: Dir: R. Herrera.
23) San Ramón. L.P: Dir: O. Acosta.
24) Limón. L.P: Dir: L. Grau V.
25) San I. de El General. L.P: Dir: P. A. Coto.
26) Golfito. L.P: Dir: L. Pinto S.
27) Apt. 46, C. Quesada. L.P: Dir: M. del Valle.
28) Turrialba. L.P: Dir: H. Saborio.
29) Minist. Agricultura, San José.
30) San José. L.P: Dir: A. Céspedes A.
31) Guápiles. L.P: Dir: P. Jesus C.

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Direccion General de Telecomunicaciones.
ADDR: Plaza de la Revolúcion "Jose Marti", La Habana.

INSTITUTO CUBANO DE RADIODIFUSION
Edif. Radiocentro, Ly 23, Vedado, Habana.
Medium Waves: Call: CM—

	Call	kHz	kW	Location
1)	AN	550	30	Pinar del Rio
1)	—	560	1	Las Mercedes
1)	HI	570	10	Santa Clara
1)	JM	580	0.5	Ciego de Avila
1)	W	590	150	La Habana
2)	—	590	5	Baracoa
1)	KV	600	150	Holguín
1)	—	600	1	Trinidad
3)	HQ	630	60	Santa Clara
3)	KU	630	2	Santiago
3)	Q	640	50	La Habana
4)	HG	660	1	Santa Clara
4)	AF	670	1	Pinar del Rio
4)	KP	670	50	Holguín
4)	HN	680	1	Cienfuegos
4)	DB	680	1	Santiago
4)	BC	690	50	La Habana
4)	JT	700	1	C. de Avila
1)	GN	720	30	Colón
3)	KJ	730	10	Holguín
3)	JL	740	10	Camaguey
3)	AQ	740	1	Pinar del Rio
5)	DC	760	10	La Habana
5)	JS	760	1	Ciego de Avila
2)	DC	770	10	Holguín
1)	JN	780	1	Camaguey
6)	CH	790	10	La Habana
5)	KL	800	2	Santiago
4)	JE	810	1	Camaguey
7)	CA	830	10	La Habana
8)	HW	840	1	Santa Clara
2)	KC	850	2	Santiago
9)	BL	860	1	La Habana
10)	JY	860	1	Ciego de Avila
1)	DN	870	10	Guantánamo
11)	JB	880	1	Camaguey
11)	AG	880	1	Consolación del Sur
11)	HD	890	1	Santa Clara
11)	DZ	890	0.25	Santiago
3)	JV	900	1	Ciego de Avila
11)	BF	910	10	La Habana
12)	AS	920	0.25	Pinar del Rio
11)	HB	920	1	Sancti Spiritus
11)	GX	930	1	Matanzas
1)	KN	930	1	Santiago
2)	DJ	950	0.25	Guantánamo
8)	HE	950	0.25	Fomento
5)	GL	959	0.25	Matanzas
13)	CK	980	5	La Habana
14)	HT	990	1	Sancti Spiritus
10)	FA	1000	1	Camaguey
11)	KM	1012	5	Holguín
15)	BN	1020	0.25	Nueva Gerona
3)	DW	1030	0.25	Guantánamo
12)	AC	1030	0.25	Cristóbal
16)	KW	1040	0.25	Santiago
17)	BQ	1060	5	La Habana
18)	HS	1080	0.1	Caibarién
2)	DD	1090	0.25	Las Mercedes
19)	HU	1100	0.5	Cienfuegos
20)	DL	1120	1	Holguín
11)	HA	1130	1	Santa Clara
21)	JK	1140	0.5	Camaguey
22)	JP	1190	0.5	Ciego de Avila
5)	KD	1200	1	Holguín
5)	HK	1210	1	Cruces
23)	GY	1220	5	Perico
24)	AD	1230	0.25	Artemisa
25)	JX	1230	0.25	Morón
23)	GW	1240	0.25	Matanzas
2)	KE	1240	0.25	Victoria de la Tunas
5)	KA	1250	0.25	Guantánamo
26)	HP	1250	0.25	Placetas
5)	CI	1260	5	La Habana
5)	DE	1260	0.25	Bayamo
5)	JG	1270	1	Camaguey
5)	DP	1280	0.25	Victoria de las Tunas
5)	HM	1280	1	Santa Clara
27)	KF	1292	0.25	Guantánamo
28)	JQ	1300	1	Nuevitas
2)	DO	1310	0.25	Banas
5)	AL	1330	0.25	Pinar del Rio
5)	GU	1340	0.25	Colón
29)	KY	1350	0.25	Puerto Padre
30)	BG	1360	0.25	La Habana
31)	KX	1390	0.25	Bayamo
32)	DX	1430	0.25	Baracoa
33)	KZ	1430	0.25	Palma Soriano
34)	CG	1460	0.25	Marianao
35)	GE	1470	1	Cárdenas
36)	KT	1520	1	Victoria de las Tunas
37)	DV	1550	0.25	Santiago
5)	GB	1560	0.25	Cárdenas
38)	DF	1590	0.25	Manzanillo

1) **R. Rebelde**, Calle LO216e 23y 25, Vedado, La Habana. **D.Prgr:** 10.00-05.00.
2) **R. Cadena Provincial.**
3) **R. CMQ**, Calle M esq. a 23, Vedado, La Habana. **D.Prgr:** 10.30-05.00.
4) **R. Progreso**, Avda. Menocal 105, La Habana. **D.Prgr:** 10.30-05.00. **English:** "R. Free Dixie" directed to Negroes in the Southern US 05.00-06.00 (once weekly).
5) **R. Reloj Nacional**, Edif. Radiocentro Calle 23 258e/Ly M, Vedado, La Habana. **D.Prgr:** 24 h; Continuous prgr. of N. under rhythm of clock ticks every second; Time every min.
6) **R. Cadena Habana.**
7) **R. CMCA**, Edif. "N", calle N esq. a 23, Vedado, La Habana. **D.Prgr. in English:** 11.00-06.00 exc. for bilingual news.
8) **R. Doblevé** — 9) **Presentando Música** — 10) **Cadena Agramonte** — 11) **R. Musical Nacional**, Calle M esq. a 23, Vedado, La Habana (classical music only) — 12) **R. Cadena Provincial de Pinar del Rio** — 13) **El Periódico del Aire** — 14) **R. Sancti Spiritus** — 15) **La Voz de Isla de Pinos** — 16) **R. Frequencia Popular.**
17) **R. Enciclopedia Popular** — 18) **R. Caibarién** — 19) **Radiotempe** — 20) **R. Angula** — 21) **R. CMJK** — 22) **La Voz de Ciego de Avila** — 23) **R. Veintiseis** — 24) **R. Artemisa** — 25) **R. Morón** — 26) **R. Centro** — 27) **R. Guantánamo** — 28) **R. Nuevitas** — 29) **R. Puerto Padre** — 30) **R. Popular** — 31) **R. Bayamo** — 32) **R. Baracoa** — 33) **R. Palma Soriano** — 34) **R. Marianao** — 35) **R. Ciudad Bandera** — 36) **R. Victoria de las Tunas** — 37) **R. Santiago de Cuba** — 38) **R. Guacanayabo.**
La Voz de Cuba is a complementary early-morning prgr. of music, news and commentary. Is aired over a network of some of Cuba's high powered st's and generally operates 05.00-10.30.

RADIO HABANA, Cuba
Schedule not received at time of printing.

DOMINICAN REPUBLIC

L.T: GMT — 5 h (GMT — 4 h: October-January) — Pr.L: Spanish — EC: a/c 60 (yes).

DIRECCION GENERAL DE TELECOMUNICACIONES
ADDR: Santo Domingo. Te: 2224. Cable: Telecom — **L.P:** Dir. Gen: L. Pablo Dhimes.
STATIONS. Medium Waves: Call HI-; P = Puerto. Sto = Santo. ° = Shortwave.

	Call	kHz	kW	Name and h of tr.
1)	CM	540	5/1	R. ABC, Sto. Domingo: 10.00-05.00
2)	AA	°560	1	R. Ritmos, Santiago: 10.30-04.30
3)	MS	°570	5/10	R. Cristal, Sto. Domingo: 15.00-05.00
4)	AB	590	0.5	R. Isabel Torres, P. Plata
5)	FD	600	1	R. Unica, Castillo: 15.00-05.00
6)	SD	°620	10	R.TV Dominicana, St. Domingo
7)	AF	°630	1	R. Monte Cristi, Monte Cristi
8)	AT	650	5	R. Universal, Sto. Domingo: 11.00-05.00
9)	AM	660	2	R. Quisqueyana, Santiago: 12.00-03.00
10)	AW	690	5	R. Guarachita, Sto. Domingo: 10.00-05.00
11)	DC	700	1	R. Mao, Valverde: 12.00-01.30
12)	AQ	725	3	R. Norte, Santiago
13)	Z	730	5	Broadc. Nac, Sto. Domingo: 11.00-05.00
14)	MD	760	0.5	R. Tamboril, Pena: 11.00-03.00
15)	BO	780	1	R. Constanza, Constanza: 13.00-03.00
16)	L	790	5	La Voz del Trópico, Sto. Domingo: 10.00-05.00
17)	AZ	°820	5	R. Santiago, Santiago: 11.00-04.00
17a)	JB	830	5	R. HIJB, Sto. Domingo: W 10.45-05.00; Sun 11.00-04.30
18)	BG	870	1	Radiolandia, Santiago: 11.00-04.00

Call	kHz	kW	Name and h of tr.
19) OR	880	1	R. St. Cruz de Mao, Valverde: 11.00-03.00
20) PJ	890	5	R. Continental, Sto. Domingo: 10.45-05.00
21) BN	900	1	R. Puerto Plata, Pto. Plata: 11.00-03.00
22) BA	920	0.25	R. Reloj de Em. Unidas, Sto. Domingo: 12.00-03.00
23) CK	930	3	Ondas del Yaque, Santiago: 10.30-04.00
24) G	950	1	R. Dif. HIG, Sto. Domingo: 10.00-04.00
25) F	°960	1	La Voz del Atlantico, P. Plata
26) SA	980	3	R. Cibao, Santiago
27) JP	°1010	10	R. Comercial, Sto. Domingo: 11.00-05.00
28) DL	1030	0.5	R. Novedades, La Vega: 12.00-03.00
29) ON	1040	1	R. Ahora, Sto. Domingo; 11.00-05.00
30) CB	1050	1	R. HICB, Santiago: 11.00-03.00
31) BI	1070	1	HIBI Radio, S. Francisco de Macoris: W 10.00-03.00, Sun 13.30-01.00
32) MC	1080	0.5	R. Programas Quisqueya, Sto. Domingo: 11.00-03.00
33) JM	1090	0.5	R. Amistad, Santiago
34) HD	1100	1	La Voz de Oriente, San Pedro de Macoris: 11.00-04.00
35) MH	1110	0.5	R. Real, La Vega: 12.00-03.00
36) JJ	1110	0.5	R. Jarabacoa, Jarabacoa: 11.00-03.00
37) CN	°1120	1	R. Antillas, Sto. Domingo: 11.00-05.00
38) RL	°1130	1	R. Exitos, Santiago: 12.00-05.00
39) AS	°1150	1	Onda Musical, Sto. Domingo: 10.30-04.30
40) DE	1160	0.5	R. Tiempo, La Mata
41) BE	°1180	10	R. MIL, Sto. Domingo: 11.00-05.00
42) DV	1200	10	R. Santa Maria, La Vega: W 10.00-03.00; Sun 12.30-14.00, 16.00-20.30
43) CJ	1210	1/0.1	R. Merengue, S. Fernando de Macoris: W 11.30-00.30; Sun 12.00-24.00
44) N	°1220	10	R. HIN, Sto. Domingo: 11.00-00.35
45) AU	°1240	0.5	La Voz de la Libertad, P. Plata
46) CV	1240	0.7	R. Barahona, Barahona: 11.00-03.00
47) BC	1250	5	La Voz del Progreso, San Francisco de Macoris: W 11.00-00.30; Sun 12.00-03.00
47a) T	1260	1	R. Visión, Sto. Domingo: 10.30-05.00
6) SD	1270	1	R.TV Dominicana, Santiago
48) VM	1290	1	R. Bonao, Bonao
49) VD	1290	0.5	R. Jánico, Jánico: 11.00-03.00
50) KQ	1300	0.5	R. Radio, Sto. Domingo: 10.00-05.00
51) AV	1310	0.5	R. Bani, Bani: 12.00-01.00
6) SD	1310	1	R.TV Dominicana, El Ceibo
52) DB	°1330	1	R. Libertad, Santiago
53) MP	1340	0.25	R. Ocoa, San José de Ocoa: 11.00-03.00
54) BZ	1340	1	R. Centro, San Juan de la Maguana: 11.00-03.00
55) XZ	1350	0.5	R. Triunfo, Sto. Domingo: 13.00-01.00
56) MG	1360	1	R. Rutas, La Romana: 11.00-04.00
6) SD	1360	1	R.TV Dominicana, La Vega
6) SD	1370	1	R.TV Dominicana, Barahona
6) SD	1400	1	R.TV Dominicana, San Juan: 11.00-05.00
57) AL	1400	1	Ondas del Valle, La Vega: W 12.00-03.00; Sun 14.00-23.00
58) AE	1410	1	R. Tricolor, St. Domingo: 11.00-05.00
59) VG	1430	1	R. Momento, La Vega
60) FS	1440	1	R. Bahia, Nagua: 11.00-03.30
61) AD	°1440	1	R. San Juan, San Juan: 10.45-03.00
62) AK	1440	3	R. Progreso, Sto. Domingo: 10.00-03.00
63) AR	1450	0.5	R. San Cristóbal, S. Cristóbal: W 12.00-03.00
64) AC	1450	0.5	R. Dif. HIAC, Salcedo
65) HG	1450	1	R. Beler, Dajabón
66) RD	1450	1	La Voz del Caribe, San Pedro de Macoris
67) AN	1460	0.5	R. Magua, Hato Mayor: 10.00-03.00
68) AG	1470	0.5	R. Azul, Santiago
69) AH	1480	0.5	R. Sensacional, Sto. Domingo: 09.30-06.00
70) AP	1490	0.25	R. Gabino, Moca
71) KF	1490	1	R. Azua, Azua
72) JX	1500	1/2	R. Zamba, Santiago Rodriguez: 10.45-03.00
73) PS	1510	1	R. Nagua, Nagua
74) BL	1520	1	R. Pueblo, Sto. Domingo: 10.00-05.00
75) JC	1550	5	R. Mayba, Santiago: 11.00-06.00
76) FB	1560	1	R. El Mundo, Sto. Domingo: 11.00-05.00
77) WJ	1580	0.5	R. Samamá, Samamá
78) AJ	1590	1	R. Unión, Sto. Domingo: 11.00-05.00
79) BS	1600	1	R. San Pedro, San Pedro de Macoris: 11.00-04.00
80) DA	°1600	1	R. HIT Musical, Santiago: 11.00-04.00

Short Waves: Call HI--; * = inactive.

Call	kHz	m	kW	Name and h of tr.
45) AU	*3205	93.60	0.5	La Voz de la Libertad, P. Plata
6) SD	*3215	93.30	7.5	R. Televisión Dominicana, Sto. Domingo
52) DB	*3225	92.74	0.5	R. Libertad, Santiago
7) AF	*3245	92.45	0.5	R. Monte Cristi
81) RM	*3265	91.87	1	R. Sol, Higuey
6) SD	3285	91.32		R.TV Dominicana, Santiago
2) AA	*3315	90.50	1	R. Ritmos, Santiago
39) AS	*3345	89.68	1	Onda Musical, Sto. Domingo
82) BD	3355	89.42	0.25	La Voz de la Romana, La Romana: 11.00-03.00
38) RL	3365	98.15	1	R. Exitos, Santiago: 12.00-05.00
61) AD	3375	88.89	1	R. San Juan: 10.45-03.00
80) DA	3385	88.63	1	R. Hit Musical, Santiago: 11.00-15.00, 22.00-04.00
17) AZ	3395	88.37	1	R. Santiago: 16.00-04.00
83) FI	4750	63.16		R. HIFI, Sto. Domingo
39) AS	4795	62.57	1	Onda Musical Sto. Domingo: 10.30-04.30
25) FF	*4840	61.98	1	La Voz del Atlantico, P. Plata
27) JP	4880	61.48	1	R. Comercial, Sto. Domingo: 11.00-05.00
84) KZ	4980	60.25	0.5	R. Dif. Popular (irr.)
44) N	4910	61.10	1	R. HIN, Sto. Domingo: 11.00-05.00
41) BE	4930	60.85	1	R. Mil, Sto. Domingo: 11.00-05.00
37) CN	*4960	60.48	1	R. Antillas, Sto. Domingo
3) MI	5010	59.88	1	R. Cristal, Sto. Domingo: 10.00-06.00
85) BB	5030	59.64	1	La Voz del Papagayo, La Romana: 11.00-03.00
16) L	*5055	59.35	5	La Voz del Tropico, Sto. Domingo
17) AZ	*6060	49.50	0.5	R. Santiago
52) DB	*6075	49.38	0.5	R. Libertad, Santiago
6) SD	6090	49.26	20	R. Televisión Dominicana: 11.00-05.00
45) AU	*6190	48.47	0.1	La Voz de la Libertad, P. Plata
6) SD	9505	31.56	50	R. Televisión Dominicana: 11.00-05.00

Addresses & other information:
Abbrev: R.D. = Republica Dominicana.
1) Ca. Aníbal Espinosa 60, Villas Agrícolas, Sto. Domingo. **Te:** 5-3616. **L.P:** Dir: L. Olivo. **FM:** 105MHz. V. by letter.
2) Apt. 581, Santiago, **Te:** 2001. **L.P:** J. W. Streese.
3) Apt. 819, Sto. Domingo. **Te:** 2-1577. **L.P:** Owner: E. A. Dickson N. Dir: N. Alfonso. Dir. Tec: V. Lembert F. **FM:** 96.5MHz. V. by letter. Rec. acc.
4) Ca. John F. Kennedy 115, P. Plata. **L.P:** Dir: Lic J. Méndez.
5) Ca. Mella 33, Castillo. **L.P:** Dir. Gen: R. Aracena. Dir. Tec: J. Andres Urena. V. by letter. Rec. acc.
6) Ca. Dr. Tejada Florentino 8, Sto. Domingo. **Te:** 9-2120. **Cable:** Ratdo. **L.P:** Dir. Gen: Lorenzo Perello. **D.Prgr:** N: 11.00, 17.00, 01.00. V. by QSL-card. Rec. acc. **FM:** 96MHz (Constanza) 0.25kW, 100MHz (Sto Domingo) 0.25kW + 3 links.
7) Apt. 52, Monte Cristi. **Te:** 161. **L.P:** R. O. Moscoso. **D.Prgr:** N: 17.00, 00.00. **FM:** 92MHz 0.25kW. V. by letter. Rec. acc.
8) Hotel Jaragua, Sto. Domingo. **L.P:** Dir: E. A. Perez. **FM:** 98MHz. V. by letter.
9) Ca. 30 de Marzo 47, Santiago. **Te:** 2540. **L.P:** Dir: M. Cepeda.
10) Palo Hincado 74, Sto. Domingo. **L.P:** Dir: R. A. Aracena. **FM:** 90MHz 1kW.

11) 27 de Febrero 71, Valverde. L.P: Dir: T. Pujols S.
12) Ca. Pedro Fco. Bono 58, Santiago. L.P: Dir: R. Hevia.
13) Ca. El Conde 79, Edifico Copello, Sto. Domingo. FM: 89MHz. V. by letter.
14) Peña. L.P: Dir: A. Dajer B.
15) Ca. Duarte Esq. Salomé Ureña de Henriquez, Constanza. V. by QSL-card. Rec. acc.
16) Apt. 335, Sto. Domingo. Te: 5-5744. L.P: Dir. Gen: V. Portalatin. D.Prgr: N: 10.30, 19.30. FM: 98.2MHz 1kW. V. by letter. Rec. acc.
17) Apt. 282, Santiago. Te: 5141. L.P: Dir: A. Bojas B. Dir. Tec: L. Filipe Moscoso. D.Prgr: N: 17.35, 03.05. FM: 89.2MHz 500W. V. by QSL-card.
17a) Apt. 416, Sto. Domingo. Te: 5-5331. L.P: A.Gil Itarbides D.Prgr: N: 11.00, 17.00, 23.00, 02.00.
18) Apt. 187, Santiago. Te: 3429. L.P: Dir. Gen: L. Pappaterra. D.Prgr: N: 11.30, 17.00, 23.00. FM: 93.1MHz 0.25kW. V. by letter. Rec. acc.
19) Ca. Duarte 49, Valverde. Te: 234. V. by letter. Rec. acc.
20) Apt. 156, Sto. Domingo. Te: 5-4621. L.P: Dir: P. Justiniano P. V. by letter. Rec. acc.
21) Apt. 183, Puerto Plata. L.P: Dir: J. A. Martinez. V. by letter. Rec. acc.
22) Ca. Arzobispo Meriño 26, Sto. Domingo. L.P: Dir: P. J. Santana.
23) El Sol Esq. Ca. 30 de Marzo, Santiago de los Caballeros. Te: 5444. L.P: Dir Gen: R. Candelario L. D.Prgr: N: 11.00, 17.00, 23.00. FM: 92MHz 0.25kW. V. by letter.
24) Av. Mella 144, Sto. Domingo. L.P: Dir. Gen: A. Cordero. FM: 97MHz. D.Prgr: N: 10.00. V. by letter. Rec. acc.
25) Ca. Comercio. 21, P. Plata. Te: 567. L.P: Dir: D. Brugal Alfau.
26) Apt. 141, Santiago. L.P: Dir: C. Pou.
27) Apt. 1322, Sto. Domingo. Te: 5-2008. L.P: Dir: J. Nova R. Dir. Tec: H. Cambero. FM: 95MHz 0.5kW. V. by letter.
28) Ca. Restauración 21, La Vega. Owner: N. Grullón A.
29) Apt. 1042, Sto. Domingo. L.P: Dir: R. Molina. Dir: F. Amaro. FM: 92.5MHz.
30) 30 de Marzo 54, Santiago. L.P: Dir: J. L. Sánchez.
31) Apt. 201, San Francisco de Macoris. L.P: Dir: J. A. Gonzalez.
32) Edif. Jaar, Ca. El Conde Esq. Espaillat, Sto. Domingo. L.P: Dir: V. M. Furment U.
33) Licey al Medio, Santiago. L.P: Dir. Gen: J. E. McDougal.
34) Apt. 554, San Pedro de Macoris. L.P: Dir: F. M. Donastorg.
35) Ca. J. Rodriguez 2, La Vega. L.P: Dir: F. Holguin.
36) Ca. Domingo. Savio 1, Jarabacoa. L.P: Dir: J. R. Mejia.
37) Ca. Mercedes 102, Sto. Domingo. Te: 9-8728. Cable: Mazelba. L.P: Dir: M. Zaglul. D.Prgr: N (W only): 11.30, 17.30, 23.00. V. by letter.
38) 16 de Agosto 119, Santiago. Te: 4318. L.P: Dir: D. de la Rosa. FM: 90MHz 50kW. V. by letter.
39) Palo Hincado 48, Sto. Domingo. Te: 2-6129. L.P: Owner: R. Pacheco. St. Mgr: M. Báez A. D.Prgr: N: 11.00, 17.30, 23.30. V. by letter. Rec. acc. FM: 92MHz 0.05kW.
40) Av. Mauricio Baez 25, Cotuí, La Mata. L.P: Dir: R. A. Almonól.
41) Apt. 1372, Sto. Domingo. L.P: Dir: J. Jiménez M. FM: 103/172.4MHz (0.25kW/15W). V. by QSL-card.
42) Sto. Cerro, La Vega. L.P: Dir: R. P. Wenceslao C.
43) Apt. 47, San Francisco de Macoris. L.P: Dir: A. Mena.
44) Apt. 1220, Sto. Domingo. Te: 3-1025. L.P: Dir: P. P. Bonilla. FM: 91MHz. V. by letter. Re. in Sp, E.
45) Apt. 224, P. Plata. Te: 551. L.P: Dir: R. Rojas. Dir. Tec: L. José E. D.Prgr: N: 11.00, 17.30. FM: 98.2MHz. V. by letter. Rec. acc.
46) Apt. 25, Barahona. L.P: Dir: R. Lama. V. by letter. Rec. acc.
47) Apt. 264, San Francisco de Macoris. L.P: Dir: J. Raposo P.
47a) Ca. Hermanos Deligne 32, Sto. Domingo. Te: 2-6274. L.P: Owner: J. O. Brea. Dir: G. A. Tejeda.
48) Ca. Duarte Esq. Mella, Bonao. L.P: Dir: J. Aquino T.
49) Av. Libertad 2, Jánico. L.P: Dir. Gen: V. A. Casanova. D.Prgr: N: 13.00. V. by letter.
50) Apt. 209, Ca. El conde, Edif. El Palacio, Sto. Domingo. L.P: Dir: R. A. Martinez G.
51) Duarte 31 Sur, Bani. L.P: Dir: M. E. Bello.
52) Apt. 112, Santiago. L.P: Dir: A. Vanderhorst. Te: 2924. D.Prgr: N: 11.30, 22.00. V. by letter or QSL-card.
53) Ca. Sánchez Esq. 12 de Julio, San José de Ocoa. Te: 34. L.P: Dir. Gen: F. A. Isa. St. Mgr: W. A. Read. Dir. Tec: R. Daniel M. D.Prgr: N: 11.00, 17.30, 23.00. V. by letter. Rec. acc.
54) Ave. Anacaona 52, San Juan de la Maguana. Te: 222. L.P: Dir. Gen: I. Aquiles R. D.Prgr: N: 11.00, 17.30. FM: 100.1MHz 0.25kW. V. by letter. Rec. acc.
55) Apt. 201, Sto. Domingo. L.P: Dir: F. Hatton.
56) Av. 24 de Abril 128, La Romana. Te: 409. L.P: Dir. Gen: M. Espinal O. D.Prgr: N: 11.00, 17.30, 23.00. V. by letter. Rec. acc.
57) Apt. 102, La Vega. L.P: Dir: D. Valerio.
58) Apt. 1013, Sto. Domingo. L.P: Dir: G. Guerrero.
59) Apt. 203, La Vega. L.P: Dir: G. Sánchez G.
60) Emilio Conde 5, Nagua. V. by QSL-card. Rec. acc.
61) Apt. 88, San Juan. Te: 233. L.P: Dir: Dr. L. P. Gonzales.
62) Apt. 715, Sto. Domingo. L.P: Dir: D. Mayo. FM: 89.6MHz. V. by letter.
63) Ca. Modesto Diaz 5, San Cristóbal. L.P: Dir: V. Cabreja.
64) Ca. G. R. Cabral 11, Salcedo.
65) Barrio Mejoramiento Social, Dajabón. L.P: Owner: A. Garcia.
66) Ca. Independencia 59, San Pedro de Macoris. L.P: Dir: R. Vallenilla.
67) Apt. 304, Hato Mayor. L.P: Dir. Gen: C. O. Ceped H. Dir. Tec: E. F. Astacio. V. by letter. Rec. acc. Rp.
68) Ca. San Luis 25, Santiago. Te: 4062. L.P: Dir: L. Atiles.
69) Ca. Yolanda Guzmán 183, Sto. Domingo. Te: 93311. L.P: Owner: C. Solano. Dir: R. Gomez.A
70) Ca. Caonabo 81, Moca. L.P: Dir: G. Nunez.
71) Ca. Francisco del Rosario Sánchez 6, Azua. L.P: Dir: J. A. Féliz A.
72) Ca. Restauración 50, Santiago Rodriquez. L.P: Dir. Gen: M. de Js. Thomas. V. by letter. Rec. acc.
73) Nagua. L.P: Dir: S. Collado G.
74) Apt. 1099, Sto. Domingo. Te: 5-1463. L.P: Dir: P. Pou S. D.Prgr: N: 10.30, 17.30, 22.30. V. by letter. Rec. acc. FM: 91.7MHz.
75) Apt. 42, Santiago. Te: 55-58. L.P: Dir: J. Caballero. D.Prgr: N: 16.30, 02.00. V. by letter. Rec. acc.
76) Apt. 467, Los Minas, Sto. Domingo. L.P: Dir: L. R. Sanchez N.
77) Apt. 124, Samamá. L.P: Dir: F. del Toro.
78) Apt. 197, Sto. Domingo. L.P: Dir: R. Peralta P.
79) Apt. 504, San Pedro de Macoris. L.P. Dir: E. A. de Soto.
80) 30 de Marzo 35, Santiago. Te: 3246. Cable: Maja. L.P: Dir. Gen: M. A. Jorge A. Dir. Tec: P. J. Jorge. D.Prgr: N: 11.30, 18.15, 22.00, 23.30. V. by QSL-card. Rec. acc.
81) Apt. 1313, Higuey. Te: 43. L.P: Dir: R. A. Morales. D.Prgr: N: 11.00. V. by letter. Rec. acc.
82) Castillo Márquez 28, altos, La Romana. Te: 98. L.P: Dir: N. Martiñez.
84) Ca. Modesto Diaz 28, Apt. 3, San Cristóbal. L.P: Dir: R. Reves.
85) Casa Puerto Rico, La Romana. Te: 135. L.P: Dir: M. Romero.

EL SALVADOR

L.T: GMT — 6 h — Pr.L: Spanish.

GOVERNMENT DEPT. FOR BROADCASTING
ADDR: Ministerio del Interior, Palacio Nacional, San Salvador.

ASOCIACION SALVADORENA EMPRASARIOS RADIODIFUSION (ASDER)
ADDR: Apt. Postal 210, San Salvador. L.P: Pres. A. Rivas Cañas.
STATIONS: All st's comm. exc. R. Nacional (Cultural).
Medium Waves: Call: YS---. °=Short Wave.

	Call	kHz	kW	Name / location
1)	FG	550	0.5	R. Variedades, Sonsonate
2)	ABC	560	5	Radioem. Salvadoreña, San Miguel
3)	EB	580	10	Cadena Radial Salvadoreña, San Salvador
4)	NK	600	5	R. Exitos, San Salvador
5)	LN	630	10	R. 630, San Salvador
6)	S	°655	10	R. Nacional del Salvador, San Salvador
7)	QR	700	5	R. Morazán, San Salvador
8)	RS	710	1	Circuito YSR, Sonsonate
8)	RA	720	1	Circuito YSR, Santa Ana
8)	RU	720	1	Circuito YSR, Usulután
8)	R	730	10	Circuito YSR, San Salvador
8)	RM	740	1	Circuito YSR, San Miguel
9)	KLA	750	10	R. Universal, Santa Fé
9)	KL	760	10	R. Cadena YSKL, San Salvador
9)	KLB	770	5	R. Universal, San Miguel
10)	AX	800	10	La Voz Panamericana, San Salvador
11)	FA	810	1	R. Lorenza, San Vicente
3)	DR	820	5	R. Tropical, Santa Ana
12)	PX	830	4	R. Pax, San Miguel
13)	F	840	5	R. Vanguardia, San Salvador
14)	RC	860	1	R. Tecána, Santa Ana
15)	AR	870	1	R. Comercial, San Salvador
16)	CD	880	0.5	R. Dif. YSCD, Usulután
17)	LA	890	1	R. Musical, Santa Ana
18)	QJ	910	10	Radiopolis, San Salvador
19)	W	930	1	R. Santa Ana, Santa Ana
20)	TG	940	1	R. Sonora, San Salvador
21)	GH	950	1	R. Minuto, San Miguel
22)	TW	960	0.25	R. Centro, Sonsonate

	Call	kHz	kW	Name/Location
23)	MS	970	0.25	R. Centroamericana, San Salvador
24)	AN	980	1	La Voz de los Ausoles, Ahuachapán
25)	TA	990	5	R. Continental, Mejicanos
26)	C	1015	10	R. Internacional, San Salvador
27)	U	1050	10	R. Mil Cincuenta, San Salvador
28)	DM	1080	5	Cadena Radial Salvadoreña, San Miguel
3)	EM	1080	1	R. Dif. YSEM, Planes de Renderos
29)	MG	1090	1	La Voz del Espino, Ahuachapán
30)	EF	1100	1	R. Femenina, Mejicanos
31)	OA	1120	1	R. Libertad, San Salvador
32)	G	1130	0.5	R. Chaparrastique, San Miguel
33)	T	1140	3	R. El Mundo, San Salvador
34)	CF	1150	1	Ondas Orientales, La Union
35)	CB	1175	0.5	La Voz del Pacifico, Sonsonate
36)	DL	1200	1	La Voz Popular Salvadoreña, Mejicanos
37)	EW	1220	3	R. Popular, San Salvador
38)	I	1250	3	R. Reloj, San Salvador
39)	QZ	1270	0.5	R. 1270, San Miguel
40)	V	°1280	1	R. Comercial, Santa Ana
41)	HX	1300	1	El Sonido de la Musica, Cuscatancingo
42)	HQ	1330	10	R. Progreso, San Salvador
43)	XW	1340	1	R. San Miguel, San Miguel
44)	MQ	1370	0.5	La Voz de las Colinas, Neuva San Salvador
45)	II	1400	1.5	La Voz del Litoral, Usulután
46)	HF	1430	0.5	R. Caribe, Cojutepeque
47)	ON	1470	2	R. Cristal, San Salvador

Short Waves: Call: YS---.

	Call	kHz	m	kW	Name
6)	S	6010	49.92	5	R. Nacional de El Salvador
6)	S	9555	31.40	5	San Salvador: 17.00-05.00
40)	V	9576	31.33		R. Comercial, Santa Ana

Circuito YSR (Comm.): St's: 8. — **Addr:** Apt. Postal 720, San Salvador. **Cable:** Yesere. **L.P:** Dir: B. Eserski. **D.Prgr:** All st's 12.00-06.00. **FM:** 89MHz 0.05kW, 102MHz 0.2kW. V. by QSL-card and letter.

Radio Televisión YSU, S.A. (Comm.): St's 2), 7) — **Addr:** Apt. Postal 1050, San Salvador. **Te:** 1050. **Cable:** Yusa. **D.Prgr:** All st's 12.00-06.00. N: 03.30, 05.50+ short N. every 15 min. V. by QSL-card and letter.

Cadena Radia Salvadoreña, S.A: St's 3 — **Addr:** Edif. Torre Lopez, 3°piso, San Salvador. **Te:** 3331. **Cable:** Carasal. **D. Prgr:** All st's 12.00-06.00. N: Every 15 min's.

Radio Cadena YSKL: St's 9 — **Addr:** Box 1329, San Salvador. **Te:** 6830. **D.Prgr:** YSKL 24 h, other st's: 12.00-17.30. N: every 15 min's.

Medium Waves: D. Prgr: Approx. 12.00-05.00.

1) 3a Ca. Oriente 19, Sonsonate.
3) St's; EB=San Miguel; DR=Sta. Ana; EM=Planes de Ronderos.
4) C. Santa Tecla Km5, San Salvador.
5) Primera Av. Sur 428, San Salvador.
6) 2a Avenida Sur 113, San Salvador. **Te:** 4376. **Cable:** Almacus. **L.P:** Dir. Gen: Lic. V. Manuel G. Dir. of Prod: R. A. Campos M. Dir. Tec: A. Hernandez. **D. Prgr:** N: 18.45, 21.45, 00.00, 04.00; also short news every 15 min's. V. by letter. Rec. acc.
7) C. Santa Tecla y Av. Alimpica, San Salvador.
8) Apt. 720, San Salvador. **Te:** 23-6744. **L.P:** Dir. Gen: B. Eserski. (RS=Sonsonate; RA=Santa Ana; RU=Usulután; RM=CRA. Internacional, San Miguel.)
9) KL=San Salvador; KLA=Colonia España, Santa Fé; KLB=San Miguel.
10) 2a Av. Norte, San Salvador.
12) Ciudad Jardin, San Miguel.
13) Pasaje Vilanova 114, San Salvador.
14) Cra. Internacional, Santa Ana.
15) 27a Ca. Oriente 229, San Salvador.
16) Santiago de Maria, Usulután.
17) 4a Ca. Poniente 2, Santa Ana.
18) Ca. Poniente 3038, San Salvador.
20) Edif. Dario 220, San Salvador.
21) 9a Ca. Oriente 17, San Miguel.
22) Ca. Oriente, Sonsonate.
23) Ca. Poniente 3038, San Salvador.
24) Ca. Poniente, Ahuachapán.
25) Colonia Alfaro, Mejicanos.
26) 29a Ca. Oriente 218, San Salvador.
27) Apt. 1050, San Salvador.
31) Cuscatancingo, San Salvador.
32) 7a Ca. Oriente 46, San Miguel.
33) Apt. Postal 210, San Salvador. **Te:** 255538. **Cable:** Yesete. **L.P:** Dir. Gen: Betty Suarez. Dir. Adm: A. Suarez.
34) Cra. Ci. S. Miguel, La Union.
35) 3a Ca. Oriente 19, Sonsonate.
36) Canton Zacamil, Mejicanos.
37) Ca. San Antonio Abad, San Salvador.
38) 53 Sur 123, Edif. Curtis, San Salvador.
39) Costado Norte del Campo de Marte, San Miguel.
40) Colonial Sta. Lucia 43B, Santa Ana.
41) Canton Delicias del Norte, Cuscatancingo.
42) Apt. 855, San Salvador. **Te:** 252054. **L.P:** Dir. Gen: Santiago E. D. **Prgr:** N. 12.45, 01.00. V. by letter. Rec. acc.
43) Ruta Militar, San Miguel.
45) 4a Av. Norte 5, Usulután.
47) Colonia Centro América, San Salvador.

GUADELOUPE (French West Indies)

L.T: GMT — 4 h — **Pr.L:** French — **EC:** a/c 50 (no).

OFFICE DE RADIODIFFUSION—TELEVISION FRANCAISE (ORTF)

ADDR: B.P. 402, Pointe-á-Pitre. **Te:** 1320 — **L.P:** Dir: F. Le Reec. Chief Tech. Sces: M. R. Vidal. Dir. Prgrs: J. F. Dumas. Dir. of Inf: M. Bordy.
STATIONS: Arnouville 640kHz 468.8m 20kW — Citerne 1420kHz 211.3m 4kW.
HOME SCE: 10.30-02.00 — N: 10.30 (rel. Paris), 11.30, 15.00, 16.00, 17.00, 21.00, 22.00, 23.00.
ANN: "Ici Guadeloupe-Inter Office de Radiodiffusion — Télévision Française" — **INT-SIG:** Guitar — **V.** by letter. **Rp** — **ALF:** 30Fr.

GUATEMALA

L.T: GMT — 6 h — **Pr. L:** Spanish

DIRECCION GENERAL DE RADIODIFUSION Y TELEVISION NACIONAL

ADDR: Ca. 18 de Septiembre 6-72, Zona 1, Guatemala. **Cable:** Tevenac. **L.P:** Vice Dir. Gen: C. A. Marroquin G.
Medium Waves: Call: TG---. °=Short Wave.

	Call	kHz	kW	Name, location & h of tr.
1)	RV	550	10	R. Cinco Sesenta, Guatemala
2)	PA	570	1	R. Palmares, Escuintla
3)	Y	580	1	R. Progreso, Guatemala
4)	RQ	°590	5	R. Quince, Sta. Cruz: 00.00-03.00
5)	A	610	1	R. Señorial, Guatemala
6)	W	°640	20	La Voz de Guatemala, Guatemala: 11.00-06.00
7)	RT	670	10	R. Fabulosa, Guatemala: 11.00-06.00
8)	MQ	680	1	R. Retema, San Marcos
9)	HR	700	5	R. Mundial, Guatemala
10)	XL	710	1	R. Tecun Uman, Quezaltenango
11)	N	°730	10	R. Cultural, Guatemala: 12.00-03.00
12)	HS	760	10	R. Super Radio, Guatelama
13)	BX	770	1	R. Fraternidad, Quezaltenango
14)	O	790	5	La Voz de las Americas, Guatemala
15)	Q	°810	2	R. Nac. Quezaltenango
16)	TO	820	5	R. Internacional, Guatemala
17)	X	850	1	R. Ciro's Guatemala
18)	SM	°870	1	R. Nacional de San Marcos
19)	J	880	10	R. Nuevo, Mundo Guatemala
20)	KL	910	1	R. Emperador, Guatemala
21)	RS	920	1	R. Sur, Escuintla
22)	TL	940	5	La Voz del Hoger, Guatemala
23)	AF	950	1	R. Indiana, Mazatenango
24)	AX	970	10	R. Continental, Guatemala
25)	AL	990	1	La Voz de la Perla, Chiquimla
26)	AH	1000	1	R. Mil, Guatemala
27)	RX	1010	1	R. Nac. Miramundo, Zacapa
28)	UX	1030	10	R. Panamericana, Guatemala
29)	JP	1040	1	R. Oriental, Jalapa
30)	SL	1050	1	R. Sol, Santa Lucia
31)	XA	1060	10	R. Centro, Guatemala
32)	D	1070	1	La Voz de Occidente, Quezaltenango
33)	Z	1090	10	R. Popular, Guatemala
34)	AB	1090	1	R. Coban, Coban Alta Verapaz
35)	MK	1110	1	R. Marinala, Santa Lucia
36)	C	1120	1	R. Poderosa, Guatemala
37)	VR	1130	1	La Voz de la Costa Sur, Retaluleu
38)	PR	1150	10	R. Reloj, Guatemala
39)	RI	1160	1	R. Izabal, Puerto Barrios
40)	RL	1170	1	R. Landivar, Quezaltenango
41)	T	1180	10	R. Sonora, Guatemala
42)	LU	1190	1	R. Novedad
43)	RJ	1200	1	R. Jutiapa, Jutiapa
44)	ED	1210	10	R. Mil Docientos Diez, Guatemala

Guatemala

Call	kHz	kW	Name, Location & h. of tr.
45) MT	1220	0.5	R. Luminaria, Antigua
46) AT	1230	1	R. Atlantida, Puerto Barrios: 11.00-04.00
47) K	1240	5	R. Sensación, Guatemala
48) L	1250	1	R. Victoria, Mazatenango
49) CQ	1270	1	R. Emis. de la Juventud, Guatemala
50) AJ	1280	1	R. Tropicana, Escuintla
51) TU	1290	1	R. Nacional, Totonicapan
52) AR	1300	5	R. Quetzal, Guatemala
53) AN	1310	1	La Voz de los Altos, Quezaltenango
54) MU	1330	10	Union Radio, Guatemala
55) LK	1360	10	R. Tic Tac, Guatemala
56) AC	1370	0.5	R. Cultural de Colomba, Colomba
57) MG	1380	1	R. Nacional, Pto. Matias de Galvez
58) YC	1390	5	R. Istmania, Guatemala
59) GH	1410	1	R. Xelaju, Quezaltenango
60) RP	1420	1	R. Diaz, 14 Guatemala
61) AG	1430	1	La Voz de Huehuetenango
62) LG	1450	1	R. Variedades, Guatemala
63) MS	°1450	1	R. Nacional, Mazatenango
64) RN	1460	1	R. Peten, Santa Barbara
65) IZ	1480	1	La Voz de la Marimba, Guatemala
66) CO	1490	1	La Voz del Tropico, Cotepeque
67) HU	1490	1	R. Circuito TGHU, Antigua
68) DZ	1510	1	R. Centroamericana, Guatemala
69) RF	1540	1	R. Faro Aviateca, Guatemala: 13.00-04.30
70) VE	1570	1	La Voz Evangelica, Guatemala
6) WA	°1600	10	La Voz de Guatemala: 11.00-06.00

Short Waves: Call: TG---. Location: Guatemala City exc. where indicated.

Call	kHz	m	kW	Name & approx. h of tr.
71) RW	2340	128.4	0.1	R. William R. Woods, Sta. Cruz Barillas: 23.30-02.30
72) SC	2350	127.6	1	La Voz de Candelaria, Jacaltenango: 11.00-12.00, 18.00-19.00, 23.00-01.00
73) BA	2360	127.1	0.25	R. Maya de Barillas, Huehuetenango: 23.00-03.00
74) VN	3360	89.29	1	La Voz de Nahualá, Nahualá, Sololá 23.00-03.00
75) CH	3380	88.76	1	R. Esc. Radiofonicas, Chortis: 18.00-02.00
4) QH	4870	61.60	2	R. Sta. Cruz, Sta. Cruz: 00.00-03-00
76) RY	4920	60.98	0.15	La Voz de San Raymundo: 23.00-06.00
63) MS	5070	59.17	0.3	R. Nacional, Mazatenango
11) NA	5955	50.40	10	R. Cultural: 12.00-03.00
18) SMA	6080	49.34	0.5	R. Nacional de San Marcos
15) QA	6110	49.10	0.5	R. Nacional Quezaltenango
6) WB	6180	48.54	10	La Voz de Guatemala: 11.00-06.00
77) FT	6190	48.47	1	R. Nacional Tikal, Flores Peten: 18.30-20.20, 01.00-04.30
11) NB	9620	31.19	10	R. Cultural: 03.00-04.00
6) WA	9760	30.74	10	La Voz de Guatemala
15) QB	11700	25.64	0.5	R. Nac. Quezaltenango: 13.00-04.00
6) WC	15170	19.78	5	La Voz de Guatemala: 11.00-06.00

Addresses & other information:

1) 30 Av. 3-40, Z-1, Guatemala. L.P: Dir: R. A. Diaz.
2) Escuintla. L.P: Dir: F. Tres G.
3) 6a Av. 10-58, Z-1, Guatemala. L.P: Dir: H. Andrino.
4) Casa Social, Sta. Cruz del Zuiche. L.P: Dir. Gen: H. Lara M. Mgr: A. J. Lanz A. Dir. Tec: A. Diaz. V. by letter.
5) 6a Av. 12-15, Z-1, Guatemala. L.P: Dir: J. A. Marroquin.
6) Ca. 18, 6-72, Z-1, Guatemala. Te: 23318. L.P: Dir. Gen: C. A. Marroquin G. Dir. Tec: G. Guevara. V. by QSL-card.
7) Apt. 1466, Z-4, Guatemala. L.P: Dir: F. Maza C. D. Prgr: N: 12.45, 18.00, 01.00. FM: 88. 1MHz 3.8kW.
8) San Marcos. L.P: Dir: F. de Diaz.
9) 6a Av. 2-80, Z-1, Guatemala. L.P: Dir: A. Mourra.
10) Quezaltenango. L.P: Dir: M. S. Sosa de C.
11) Apt. 601, Guetamala (owned by Central American Mission, 3611 Congress Ave, Dallas 19, Texas, US). L.P: Dir. Gen: W. Taylor. Mgr: D. C. Rutledge. Dir. Tec: O. López. D. Prgr: N: 13.00, 19.00, 01.00. FM: 100. 8MHz. V. by QSL-card. Rec. acc. Rp.
12) 6a Av. 15-40, Z-1, Guatemala. L.P: Dir: M. A. Rodriguez.
13) Quezaltenango. L.P: Dir: E. Pontaco.
14) 2a Av. 13-39, Z-1, Guatemala. L.P: Dir: J. Flamenco C.
15) Apt. Postal 113, Quezaltenango. L.P: Dir: J. C. Loarca del Valle. D. Prgr: N: 18. 30, 03.20. V. by QSL-card or letter. Rec. acc.
16) Km 12 C. Roosevelt, Guatemala. L.P: Dir: J. Monteros.
17) Santa Rosita, Z-16, Guatemala. L.P: Dir: R. Castillo.
18) San Marcos. L.P: Dir: J. Pablo O.
19) 6a Av. 10-45, Z-1, Guatemala. L.P: Dir: H. Gonzalez J.
20) 6a Av. 2-80, Z-1, Guatemala. L.P: Dir: L. N. Oritz.
21) Escuintla. L.P: Dir: C. Diaz.
22) 2a Ca. 4-80, Z-9, Guatemala. L.P: Dir: S. Falla C.
23) Mazatenango. L.P: Dir: G. Alcazar.
24) 13 Ca. 12-26, Z-1, Guatemala. L.P: Dir: R. Vizcaino R.
25) Chiquimula. L.P: Dir: A. Liu.
26) Ruta 6, 9-50, Z-4, Guatemala. L.P: Dir: G. Galan P.
27) Zacapa.
28) Km 12 C. Rooseveit, Guatemala. L.P: Dir: M. V. de Paniagua.
29) Jalapa. L.P: Dir: A. Morales H.
30) Santa Lucia. L.P: Dir: E. Soria S.
31) 6a Av. 10-58, Z-1, Guatemala. L.P: Dir: R. Hegel.
32) Quezaltenango. L.P: Dir: J. A. Yllescas F.
33) 3a Av. 13-07, Z-1, Guatemala. L.P: Dir: M. Tulio I.
34) Coban Alta Verapaz. L.P: Dir: D. M. de Diaz.
35) Santa Lucia. L.P: Dir: V. M. Marroquin.
36) Puerta Parade, Guatemala. L.P: Dir: J. A. Quiñonez.
37) Retalhuleu. L.P: Dir: J. E. Archila M.
38) 2a Av. 8-67, Z-9, Guatemala. L.P: Dir: M. Falmston.
39) Puerto Barrios. L.P: Dir: H. A. Orellana.
40) Quezaltenango. L.P: Dir: H. Diaz.
41) 5a Av. 16-38, Z-1, Guatelama. L.P: Dir: M. Ruiz T.
42) L.P: Dir: E. A. Liu.
43) Jutiapa. L.P: Dir: C. E. Archila.
44) 3a Av. 13-07, Z-1, Guatemala. L.P: Dir: M. T. Illescas.
45) Antigua. L.P: Dir: J. G. Mendoza T.
46) Apt. 425, Puerto Barrios. L.P: J. Archila M. D. Prgr: N: 01.00, 02.00. V. by letter.
47) 6a Av. 10-45, Z-1, Guatemala. L.P: Dir: H. Gonzalez.
48) Mazatenango. L.P: Dir: A. Medina.
49) Km 12 C. Roosevelt, Guatemala. L.P: Dir: J. Paniagua.
50) Escuintla. L.P: Dir: C. Echeverria.
52) 18 Ca. 12-24, Z-10, Guatemala. L.P: Dir: M. V. de Rosa.
53) Quezaltenango. L.P: Dir: J. C. Garcia P.
54) 10a Ca. 3-41, Z-1, Guatemala. L.P: Dir: K. Heinz.
55) Km 12 C. Roosevelt, Guatemala. L.P: Dir: M. Marroquin
56) Colombo. L.P: Dir: O. Garcia.
58) 18 Ca. 9-09, Z-1, Guatemala. L.P: Dir: J. Elias P.
59) Quezaltenango. L.P: Dir: G. Hurtado.
60) 6a Av. 7-50, Z-4, Guatemala. L.P: Dir: J. Luis A.
61) Huehuetenango. L.P: Dir: M. Guzman.
62) 6a Av. 2-80, Z-1, Guatemala. L.P: Dir: E. Gonzalez.
63) Mazatenango Such. L.P: Dir: R. Escobar.
64) Santa Barbara. L.P: Dir: M. Colmenares.
65) Mixco, Guatemala. L.P: Dir: F. Monteagudo.
66) Cotepeque. L.P: Dir: G. Calderon.
68) 2a Ca. 36-89, Z-11, Guatemala, L.P: Dir: C. Peynado.
69) 1a Ca. 6-90, Z-9, Guatemala. L.P: Dir. Gen: M. Estupinian R. Rec. acc.
70) 23 Av. 4-64, Z-7, Guatemala. L.P: Dir: O. Rios P.
71) Convento Barillas, Huehuetenango. L.P: Dir: Rev. William R. Woods. V. by QSL-card.
72) Parroquia de Jacaltenango, Huehuetenango. L.P: St. Mgr: A. Lopez D. Dir. Tec: J. McNeill.
73) Barillas, Huehuetenango. L.P: Dir. Gen: E. Alburez. Mgr: L. W. Veith. V. by letter.
74) Nahualá, Dpto. Sololá. L.P: St. Mgr: Sister J. Druffel. Dir. Tec: D. Myddleton-Evans. V. by letter.
75) Jocotán, Ch. Iquimula. L.P: Dir. Gen: F. van Weayenberghe. V. by letter. Rec. acc.
76) Mpo. San Raymundo. L.P: Dir: C. Corzo P. V. by QSL-card. Rec. acc.
77) Ciudad Flores Peten. L.P: Dir: Prof. J. E. Rosado P. V. by special letter.

O. I. R. T.

Review of the International Radio and Television Organisation (O. I. R. T.):

RADIO & TELEVISION

published in English - French, Russian and German brings every 2 months valuable information on the world of Broadcasting and Television

Subscription: The International Radio and Television Organisation (O.I.R.T.), U Mrázovky 15, Praha 5, Czechoslovakia.

HAITI

L.T: GMT — 5h — Pr.L: French, Creole

DEPARTMENT DES TRAVAUX PUBLICS
Services des Telecommunications, Port-au-Prince.
L.P: Dir: Eng. F. A. Michel.
STATIONS: All st's comm. exc. 1), 2), 19), and 24).
MEDIUM WAVES. Call: 4V---, °= Shortwave.

Call	kHz	kW	Name and h of tr.
1) UE	660	0.25	R. Lumière, Cayes
1) IA	730	0.25	R. Lumière, Cayes
1) I	°760	1	R. Lumière, Cayes
1) IE	760	0.25	R. Lumière, Cayes
2) EC	830	2.5	R. St. 4VEH, Cap-Haitien: W, 11.00-12.15, 01.30-03.30. Sun 11.00-15.00, 17.00-21.00, 01.30-03.30.
3) 2A	880	0.2	R. Nationale, Port-au-Prince: 10.00-04.00
4) JS	930	0.25	R. Varieté, Gonaives: 10.00-04.00
5) CD	960	0.3	R. Carillon, Port-au-Prince: W. 11.30-13.00, 21.00-01.00
6) CPS	990	0.2	R. Cacique, Port-au-Prince: 11.00-02.30 (Sun-04.00)
2) EF	°1035	10	R. St. 4VEH, Cap-Haitien: W. 09.55-12.15, 17.00-21.00, 23.30-01.30. Sun 09.55-15.00, 17.00-01.30
7) A	°1080	1.5	Voix de la Révolution Duvaliériste. Port-au-Prince: 11.00-04.00 (Sun 23.00)
8) F	°1120	0.2	R. Union, Port-au-Prince
9) AB	°1150	1	R. Caraibes, Port-au-Prince: 10.00-04.00
10) RD	1170	0.25	R. Tropiques, Port-au-Prince: 11.00-04.00
11)	°1190	0.15	R. Grande Anse, Jérémie
12) DS	1210	0.5	R. Progrès, Port-au-Prince: 10.00-04.00
13) YM	°1250	0.6	R. Diffusion Haitienne, Port-au-Prince: W. 11.00-02.00. Sun 16.00-22.00
14) GA	°1280	0.2	R. Capois-la-Mort, Port-de-Paix: 10.00-04.00
15) W	°1330	1.5	R. Haiti, Port-au-Prince
16) S	1380	1	R. Port-au-Prince: 10.30-03.00
17) GM	1430	1	Magloire Broadc. Port-au-Prince: 11.30 (Sun 13.30) — 04.00
18) CP	°1460	0.15	Voix du Nord, Cap-Haitien: 12.30-03.00
19) OC	1500		R. Select, Port-au-Prince
20) WA	°1500	0.2	R. Citadelle, Cap-Haitien: W. 12.00-03.00. Sun 12.00-21.00

Short Waves: Call: 4V---, *)= inactive.

Call	kHz	m	kW	Name and h of tr.
1) U	2410	124.5	0.25	R. Lumière, Cayes: 10.00-03.00
2) SO	2450	122.5	0.25	R. St. 4VEH, Cap-Haitien
21) EL	4520	66.37	0.15	Voix d'Nordeste, Ft. Liberté
13) M	4940	60.73	0.5	R. Diffusion Haitienne, Port-au-Prince: 11.00-02.00, Sun 16.00-22.00
22) GS	5020	59,76	0.5	R. Indépendance, Gonaives: 11.30-14.30, 17.00-20.00, 23.00-03.00, Sun 16.00-01.00
14) OD	5040	59.52	0.15	R. Valparaiso, Port-de-Paix
11) AE	5090	59.00	0.25	R. Grande Anse, Jérémie
21) EW	5155	58.20	0.15	Voix d'Nordeste, Ft. Liberté: 10.00-04.00
7) B	5908	50.78	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince: 11.00-0.400, Sun 23.00
7) B	5950	50.42	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince
7) B	5980	50.17	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince: 19.00-04.00 (irr.)
9) EB	6020	49.83	0.25	R. Caraibes, Port-au-Prince: 10.00-04.00
8) G	6050	49.59	0.05	R. Union, Port-au-Prince
23) SC	6078	49.36	0.2	La Voix de St. Marc
15) HW	6080	49.34	1	R. Haiti, Port-au-Prince
1) O	6100	49.18	0.25	R. Lumière, Cayes: 10.00-03.00
24) O	6100	49.18		Voix de l'Ave Maria, Cap-Haitien: 11.30-12.00, 22.30-23.00
2) E	6120	49.02	2	R. St. 4VEH, Cap-Haitien
20) WB	6155	48.74	0.25	R. Citadelle, Cap-Haitien: 12.00-03.00, Sun 12.00-21.00
18) EA	6075	49.38	0.15	Voix du Nord, Cap-Haitien
25) PJ	6175	48.58	0.5	R. Diffusion Capoise, Cap-Haitien
15) HW	6195	48.43	1	R. Haiti, Port-au-Prince: 10.30-04.00, Sun 13.00-03.00
7) C	*9485	31.62	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince
7) C	9545	31.43	7.5	Voix de la Révolution Duvaliériste
1) U	9635	31.14	0.25	R. Lumière, Cayes: 13.00-13.30
2) EH	9770	30.71	0.35	R. St. 4VEH, Cap-Haitien
2) EJ	11835	25.35	2.5	R. St. 4VEH, Cap-Haitien
2) WI	15280	19.63	0.1	R. St. 4VEH (experimental)

Addresses & other information:
1) B.P. 71, Cayes (for 4VUE: B.P. 1050, Port-au-Prince). L.P: Dir: L. A. Markwood. Dir. Tec: D. Hartt. D.Prgr: N: 12.30, 00.30.
2) Box 1, Cap-Haitien. Cable: Ormiso. L.P: Gen. Mgr: Dr. W. Gillam. Dir. Tec: M. E. Picazo. D.Prgr: French/Creole: W 09.55-12.15 on 1035/2450/6120kHz, 17.00-21.00 on all freq's, 21.00-23.30 on 830/9770/11835kHz, 23.30-01.30 on all freq's; Sun 09.55-15.00 on 1035/2450/6120kHz, 17.00-23.30 on 1035/2450/6120kHz, 23.30-01.30 on all freq's. N: 12.00, 17.30, 18.55, 21.15, 23.00, Sun 02.00. English: W 11.00-12.15 on 830/9770/11835kHz, 12.15-14.00 on all freq's, 01.30-03.30 on all freq's; Sun 11.00-15.00 on 830/9770/11835kHz, 17.00-21.00 on 830/9770/11835kHz, 01.30-03.30 on 830/9770/11835kHz. Spanish: W 09.55-11.00 on 830/9770/11835kHz, 21.00-23.30 on 1035/2450/6120kHz; Sun 09.55-11.00 on 830/9770/11835kHz, 21.00-23.30 on 830/9770/11835kHz. Int-Sig: Gong. V. by QSL-card or letter.
3) Route de Carrefour, Port-au-Prince.
4) Gonaives. L.P: Dir: J. Simon.
5) Rue Dr. Aubry 157, Port-au-Prince.
6) Rue Traversiére 3, Port-au-Prince.
7) B.P. 1143, Port-au-Prince. Te: 3471. Cable: Radioco. L.P: St.Mgr: M. Canal. D.Prgr: Special official prgr (relayed by most of Port-au-Prince st's): "La Voix de la République d'Haiti": 1200, 19.30, 23.15, 02.30. Arabic: (comm. prgr): Sun. 17.15-18.15. Note: Irregularly using 4VB on 5908, 5950 or 6000kHz — FM: 94MHz.
8) 1 Ruelle Louverture, Blvd. J. Dessalines, Port-au-Prince.
9) 23 Ruelle Chavannes, Port-au-Prince. Te: 4115. L.P: Dir. Gen. & Dir. Tec: A. Brown. Gen. Mgr: F. André. V. by QSL-card or letter — Note: The sw outlet moves from 6005 to 6020 to avoid interference.
10) Ave. John Brown, Lalue, Port-au-Prince.
11) Jérémie. L.P: Dir: A. Félix. D.Prgr: irregularly.
12) Blvd. J. J. Dessalines 758, Port-au-Prince.
13) Ruelle Jeanty, Bois-Verna, Port-au-Prince. L.P: Dir: Y. Michel. D.Prgr: N: 11.30, 12.35, 12.55, 18.00, 23.30.
14) Rue Notre Dame, Port-de-Paix. L.P: Dir: A. Dorvill' Dir. Tec: G. Arthamin. V. by letter.
15) P.O. Box 737, Port-au-Prince. L.P: Dir: R. Widmaier.
16) Stade Sylvio Castor, Port-au-Prince.
17) Rue Américaine, Port-au-Prince.
18) Cap-Haitien. L.P: Dir: E. Anacreon. V. by letter.
19) Blvd. Jn.J. Dessalines, Rue Saint-Honoré 538, Port-au-Prince.
20) Cap-Haitien. L.P: Dir: S. Wainwright. V. by letter.
22) Gonaives. L.P: Dir: P. Mitton. Dir. Tec: E. Denis.
23) St. Marc.
24) Evêché du Cap-Haitien. V. by letter. Rec. acc.
25) Rue 9D 144, Cap-Haitien.

HONDURAS (British)

L.T: GMT 6 h — Pr.L: English, Spanish — EC: a/c 60 (yes).

RADIO BELIZE (Gov.-Semi Comm.)
ADDR: P.O. Box 89, Belize. Te: 80. Cable: "Radio" — L.P: Dir. E. G. Waight. Chief Eng: L. H. Young. Prgr. Org: E. Usher.
STATIONS: 830kHz 359.7m 20kW — 3300kHz 90.85m 1kW.
HOME SCE (English, Spanish): 12.00-05.00 on 830kHz, 22.00-05.00 on 3300kHz.
English: 12.00-16.00, 17.00-22.00, 00.30-05.00. N: 12.45, 13.00, 13.30, 14.00, 18.30, 20.00, 01.00, 03.00 — Spanish: 16.00-17.00, 22.00-00.30. N: 16.55, 18.45, 24.00, 01.10.
ANN: E: "This is R. Belize, Voice of the New Central American Nation of Belize in the heart of the Carribean Basin". Sp: "Esta es R. Belice, la voz de la neuva nación Centro Americana de Belice en el corazon de la cuenca Caribena" — INT-SIG: Opening "Land of the Gods"; Closing: "Land of the Gods" and UK Nat. Anthem — V. by QSL-card. Rec. acc.

HONDURAS (Rep.)

L.T: GMT — 6 h — Pr.L: Spanish.

DIRECCION GENERAL DE COMUNICACIONES ELECTRICAS
Tegucigalpa. L.P: Chief of R. Nacional: H. Andino N.
Medium Waves: Call: HR---, °= also on Short Wave.

	Call	kHz	kW	Name & location and h of tr.
1)	TX	560	1	R. Satélite, Tegucigalpa
2)	T5	590	1	R. Satélite, San Pedro Sula
3)	LP	°610	10	R. América, Tegucigalpa: 13.00-05.00
4)	MT	°640	1	R. Molina Rojo, San Pedro Sula: 13.00-05.00
5)	VF	°640	1	R. Exitos, Tegucigalpa
6)	N	°670	10	La Voz de Honduras, Tegucigalpa
7)	RT	700	1	R. Exitos, San Pedro Sula
8)	RH	°710	1	La Voz de Occidente, Sta. Rosa de Copan: 12.00-04.00
9)	TV	°720	1	R. Televisión, Tegucigalpa: 12.00-05.00
10)	TV2	720	1	R. Televisión, San Pedro Sula
11)	QQ	730	0.25	R. Musical, Camayagua
12)	JS	740	1	R. Metropolitana, San Pedro Sula
13)	DN	°750	1	R. Caribe, La Ceiba
14)	NQ	°770	10	R. Morazán, Tegucigalpa
1)	VQ	790	1	R. Satélite
15)	XS	820	1	R. Sula, San Pedro Sula
16)	SP	°830	1	R. Moderna, Tegucigalpa
17)	GO	840	1	R. Porteña, Puerto Cortez: 11.00-07.00
18)	U	°860	10	R. Castro, Tegucigalpa: 12.00-05.00
19)	VS	°910	10	R. Católica, Tegucigalpa: 10.00-05.00
17)	ZE	930	1	R. Cortés, Puerto Cortes: 12.00-04.00
20)	YW	950	1	R. Panamericana, Tegucigalpa
21)	BT	960	1	R. Norte, San Pedro Sula
22)	AS	960	1	R. Columbia, Santa Barbara
23)	GZ	960	1	La Voz de Atlantida, La Ceiba
24)	LC	°1000	1	R. Continental, San Pedro Sula
25)	XE	°1030	1	R. Mil Treinta, Juticalpa: 12.00-05.00
26)	XN	1040	1	R. Ceiba, La Ceiba
27)	VH	1040	1	R. Mil, Tegucigalpa
28)	LE	1050	1	R. Emperador, San Pedro Sula
29)	XM	1070	1	R. Meridiano, Choluteca
30)	VA	°1080	1	R. Corona, San Pedro Sula
31)	PL	°1110	0.5	R. Progreso, El Progreso
32)	D	°1120	1.5	R. Oriental, Danli: 11.00-04.00
33)	RO	1130	1	R. Universal, Tegucigalpa
34)	ON	°1150	1	La Voz del Atlantico, Puerto Cortez
35)	TZ	1160	0.5	R. Cristal, Tegucigalpa
36)	VW	°1190	1/6	La Voz de Centroamérica, San Pedro Sula: 13.00-05.00
37)	XW	°1200	1	R. Comayagüela, Tegucigalpa: 13.00-05.00
38)	QL	1230	0.5	Centro Radial Hondurena, Siguatepeque
39)	RZ2	°1240	1	R. Juticalpa, Juticalpa: 10.30-04.00
40)	Q	°1250	1	La Voz de Suyapa, San Pedro Sula: 12.00-05.00
41)	YT	1270	1	R. Estrella de Oro, San Pedro Sula: 10.00-05.00
42)	XA	1280	1	R. Choluteca, Choluteca
43)	XX	1300	1	R. Lima, La Lima
44)	H6	1340	1	R. El Mundo, San Pedro Sula
45)	ME	°1350	1	R. El Patio, La Ceiba: 11.00-05.00
46)	VC	°1380	1	La Voz Evangélica, Tegucigalpa: 11.00-04.00
47)	FS	°1390	1	R. 1°de Mayo, Tela: 12.00-03.00
48)	PI	°1400	1	El Eco de Honduras, San Pedro Sula: 14.00-05.00
49)	OW	1420	1	R. Trópico, Tela
50)	XA	1440	1	Union Radio, Tegucigalpa
51)	OC	°1480	1	R. Bahia, Roatán
52)	MH	°1500	1	La Voz del Junco, Santa Barbara: 13.00-05.00

Short Waves: Call HR---.

	Call	kHz	m	kw	Name & h of tr.
53)	MD	4745	63.22	0.25	R. Yoro, Yoro
32)	D4	4755	63.09	1	R. Oriental, Danli: 11.00-04.00
24)	LC	4770	62.89	1	R. Continental, San Pedro Sula
39)	RZ	4780	61.48	0.5	R. Juticalpa: 10.30-04.00
47)	FS	4790	62.29	1	R. 1° de Mayo, Tela: 12.00-03.00
46)	VC	4820	62.24	5	La Voz Evangélica, Tegucigalpa: 11.00-04.00
54)	VK	4845	61.92	0.75	R. Católica (La Voz de San Isidro), La Ceiba: 12.00-13.00, 17.00-19.00, 23.00-03.00
30)	VA	4855	61.79	1	R. Corona, San Pedro Sula
34)	QN	4880	61.48	0.5	La Voz del Atlantico, Puerto Cortez
55)	VL	4890	61.35	1	R. Lux, Olanchito: 12.00-03.00
56)	SY	4914	61.05	0.25	La Voz del Pacifico, San Lorenzo
57)	OM	4900	61.22	0.5	La Voz del Ulua, El Progreso
31)	PL	4920	60.98	1	R. Progreso, El Progreso
19)	VS	4930	60.85	1	R Católica, Tegucigalpa: 10.00-05.00 (Sun 03.00)
58)	OE	5035	59.58	1	La Voz de las Fronteras, Ocotepeque
59)	N	5875	51.05	1	La Voz de Honduras, Tegucigalpa: 11.00-24.00
5)	VF	5955	50.37	1	R. Exitos, Tegucigalpa
8)	RH	5960	50.34	1	La Voz de Occidente, Sta. Rosa de Copan: 12.00-24.00
36)	WW	5965	50.29	1	La Voz de Centroamérica, San Pedro Sula: 13.00-05.00
48)	PI	5995	50.04	1	El Eco de Honduras, San Pedro Sula: 14.00-05.00
16)	SP	6020	49.83	1	R. Moderna, Tegucigalpa
60)	TL	6035	49.71	1	R. Tic-Tac, Tegucigalpa: 12.00-06.00
13)	DN	6040	49.67	0.5	R. Caribe, La Ceiba
3)	LP	6050	49.59	0.5	R. América, Tegucigalpa: 13.00-05.00
18)	U	6060	49.50	1	R. Castro, Tegucigalpa: 12.00-05.00
52)	MH	6075	49.38	5	La Voz del Junco, Sta. Barbara: 13.00-05.00
14)	NQ	6090	49.26	1	R. Morazán, Tegucigalpa
37)	XW	6110	49.10	0.5	R. Comayagüela, Tegucigalpa: 13.00-05.00
40)	Q	6125	48.98	1	La Voz de Suyapa, San Pedro Sula: 12.00-05.00
45)	ME	6135	48.90	0.5	R. El Patio, La Ceiba: 13.00 05.00
25)	XE	6145	48.82	0.5	R. Mil Treinta, Juticalpa: 12.00-05.00
9)	TV	6165	48.66	1	R. Televisión, Tegucigalpa: 12.00-05.00
4)	MT	6185	48.50	0.5	R. Molina Rojo, San Pedro Sula: 13.00-05.00

Addresses & other information:
St's 1), 5), 16), 20), 27), 35), 50): located in **Tegucigalpa.** Other information not available.
St's 2), 7), 12), 21), 24), 41), 44): located in **San Pedro Sula.** Other information not available.
St's 29), 42): located in **Choluteca.** Other information not available.
3) Apt. Postal 259, Tegucigalpa. Te: 2-8388. V. by letter.
4) Olga L. de Kattan, San Pedro Sula.
8) Cas. 206, Santa Rosa de Copán. Cable: Voccidente. L.P. Dir. Gen: A. Aravelo. Dir. Tec: R. Lozano. V. by letter.
9) Apt. 734, Tegucigalpa. V. by letter.
10) Apt. 208, San Pedro Sula.
14) P.O. Box 393, Tegucigalpa.
15) Carlos Coleman, San Pedro Sula.
17) Cadena Radial Portena, la Ca. y 6a Ave, Puerto Cortéz Te: 75. L.P: Dir. Gen: M. E. Prieto. D. Prgr: N: 17.00. V. by letter. Rec. acc.
18) Apt. Postal 642, Tegucigalpa. V. by letter.
19) Apt. Postal 480, Tegucigalpa. Te: 22848. V. by QSL-card.
25) Juticalpa. V. by letter. Rec. acc.
26) Antonio R. Diaz, La Ceiba.
28) Eduardo Morales, San Pedro Sula.
30) 14 Ca. So. 38, San Pedro Sula. V. by letter. Rec. acc.
31) Carlos Coleman, El Progreso.
32) Edif. R. Oriental, Danli, El Paraiso. L.P: Dir. Gen: H. Mendoza M. Dir. Tec: L. Balawy. D. Prgr: N: 19.00. V. by letter. Rec. acc. Rp.
33) Herman A. Padgett, Tegucigalpa.
34) Andrés Griffin, C, Puerto Cortez.
36) Apt. 120, San Pedro Sula. Te: 1828. V. by letter. Rec. acc.
37) Humberto Andino N, Tegucigalpa. V. by QSL-card.
39) Apt. 3, Juticalpa. Te: 2. L.P: Dir. Gen: V. Rubi Z. Dir. Tec. V. Guerrero D. D. Prgr: N: 16. 15. V. by letter. Rec. acc.
40) San Pedro Sula. L.P: Dir: R. F. Yupa.
43) Carlos Coleman, La Lima.
45) La Ceiba. Te: 112-222. L.P: Dir. Gen: J. A. Velasquez. St. Mgr: G. Irias A. Dir. Tec: L. Gomez. V. by letter.
46) Apt. 270, Tegucigalpa. Te: 27964. Cable: Vozevhon. L.P: Dir: H. W. Erickson. Dir. Tec: P. Hutton. Dir. Prgr: R. Youngs. D. Prgr: English: 15.00-16.00, 03.00-04.00. N. in Spanish: 13.00-14.00, 19.00, 01.00. V. by QSL-card or letter.

47) Tela. V. by letter.
48) Apt. 24, San Pedro Sula.
49) Tela. L.P: Dir: R. Funez A.
52) Ca. Independencia, Sta. Barbara. L.P: Dir: Miguel Hasbun. D. Prgr: N. 17.30. V. by QSL-card.
54) Box 51, La Ceiba. Te: 241. L.P: Dir. Gen: C. A. Valdez. Mgr: Rev. J. Vivas G. D. Prgr: N: 18.30. V. by letter.
55) Olanchito, Yoro. V. by letter.
56) Alberto H. Matamoros, San Lorenzo.
57) El Progreso, Yoro. V. by letter. Rec. acc.
58) Edgardo Valle S, Ocotepeque.
59) 8a Ca. 410, Tegucigalpa. Te: 20861. V. by QSL-card.
60) Apt. Postal 771, Tegucigalpa. V. by QSL-card. Rec. acc.

JAMAICA

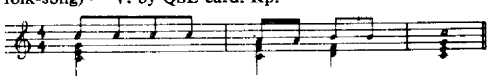
L.T: GMT — 5 h — Pr.L: English — EC: a/c 60 (yes).

RADIO JAMAICA LTD. (Comm.)
ADDR: Broadcasting House, Kingston 5. Te: 68151.
Cable: Broadco — L.P: Gen. Mgr: L. de Pass. Dir. Prgr: H. Wong. Chief Eng: W. G. Matthews.
STATIONS: Mandeville 770kHz 5kW — Kingston 720kHz 5 kW — Point Galina 580kHz 5kW — Montego Bay 550kHz 5kW.
F.M: Kingston 94.6MHz 1kW; Spur Tree 90.5MHz 1kW.
HOME SCE. in English: 09.45-05.00 (Sat 06.00). N: 11.00, 12.00, 12.30, 13.00, 13.10, 15.00, 17.00, 18.00, 20.00, 22.00, 22.30, 23.00, 24.00, 01.00, 03.00, 04.55 — **Imminent Hurricane warnings:** on the h.
ANN: "This is RJR" — V. by QSL-card — AD: 12 min's per h.

JAMAICA BROADCASTING CORPORATION (Comm. and Public Service)
ADDR: P.O. Box 100, Kingston 10. Te: 65621. Cable: Jarad — L.P: Gen. Mgr: W. Bennett. Asst. Gen. Mgr: L. H. Stewart. Dir. Prgrs: N. Gayle.

STATIONS:	kHz	kW	STATIONS:	kHz	kW
Kingston	560	5	Montego Bay	700	5
Spur Tree	620	5	Point Galina	750	5

FM: Kingston 96.3MHz 1.2kW — Half Way Tree 99.0MHz 0.08kW — Christina 91.1MHz 1.2kW.
HOME SCE: 09.45-05.00. N: 11.00, 12.00, 12.30, 13.00, *13.10, 15.30, 17.30, 18.30, 21.30, 22.30, 23.00, *00.30, 02.30, 04.00 (* = BBC) — Wrp: W 11.30, 12.40, 17.35, 23.32, 04.02.
ANN: "This is the Jamaica Broadc. Corpo." or "This is JBC Radio" — INT-SIG: Vibraphone: Chi Chi Bud (Jamaica folk-song) — V. by QSL-card. Rp.



LEEWARD ISLANDS

L.T: GMT — 4 h — Pr.L: English.

Montserrat

RADIO MONSERRAT (Gov.)
ADDR: P.O. Box 51, Plymouth, Montserrat. Te: 2451. Cable: Radmon. L.P: St. Mgr: R. W. White.
STATION: 885kHz 339.0m 1kW — HOME SCE: 10.00-14.00, 16.00-02.15.
ANN: "This is Radio Montserrat (the friendly voice of the Leewards) broadc. to the entire Eastern Caribbean on 885kHz from the Groves Botanical Gardens in Plymouth".

RADIO ANTILLES (Priv. Comm.)
ADDR: P.O. Box 35, Montserrat, West Indies. Te: 2125. Cable: ARC.
STATIONS: 930kHz 322m 200kW — 640kHz 468.0m 25kW.
HOME SCE: 10.00-14.00, 16.00-05.00.
English: 10.00-11.00, 13.00-14.00, 19.00-23.00, 01.00-02.30
French: 11.00-13.00, 16.00-18.00, 23.00-01.00. French/English: 18.00-19.00. Spanish: 02.30-05.00.
ANN: E: "This is R. Antiles". F: "Ici R. Antilles". Sp: "Aqui R. Antillas" — INT-SIG: Carillon (two notes) and "Carnival in the West Indies" — V. by QSL-card or letter.

Antigua

ANTIGUA BROADCASTING SERVICE (Gov.)
ADDR: St. Johns, Antigua — L.P: Mgr: E. A. M. John.
STATION: 620kHz 483.9m 0.5kW — HOME SCE. in English: 11.00-03.00.

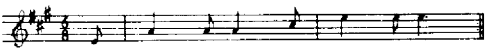
St. Kitts

RADIO ZIZ (Gov.)
ADDR: Springfield, Basseterre, St. Kitts — L.P: Mgr: K. Osborne.
STATION: ZIZ 570kHz 526.3m 5kW.
HOME SCE. in English: 10.00-03.00 — N: 11.00, 13.00, 15.00, 16.15 — ANN: "This is R. Station ZIZ" or "This is 570 Radio" — V. by letter.

MARTINIQUE (French West Indies)

L.T: GMT — 4 h Pr.L: French — EC: a/c 50 (no).

OFFICE DE R. DIFF. TELEVISION FRANCAISE (ORTF)
ADDR: B.P. 662, Fort de France. Te: 6060. L.P: Dir. L. M. Cohic. Dir. Tec: M. Gianti. Dir. of Inf: G. Farbe.
STATIONS (G.C: 61.00W/14.30N): 1310kHz 229.0m 50kW. 3315kHz 90.5m 4kW — 4895kHz 61.29m 4kW — 5995kHz 50.04m 4kW.
HOME SCE. in French: 10.00-02.45. On 1310kHz: as above; On 3315kHz: 10.00-12.00, 18.00-02.30; On 4895kHz: 12.00-22.00; On 5995kHz: 14.00-20.00 — N: 10.30, 11.30, 17.00, 23.00.
ANN: "Ici Office de R. diff. Télévision Française, Fort de France" — INT-SIG: First eight notes of "Adieu Foulards, Adieu Madras" on piano.
V. by letter or QSL-card — ALF: 25 Frcs.



MEXICO

L.T: GMT — 6 h (Mexico generally), GMT — 7 h (Sonora, Sinaloa, Nayarit and Lower Calif.), GMT — 8 h (Upper Calif.) — Pr.L: Spanish — EC: a/c 50 or 60 (yes).

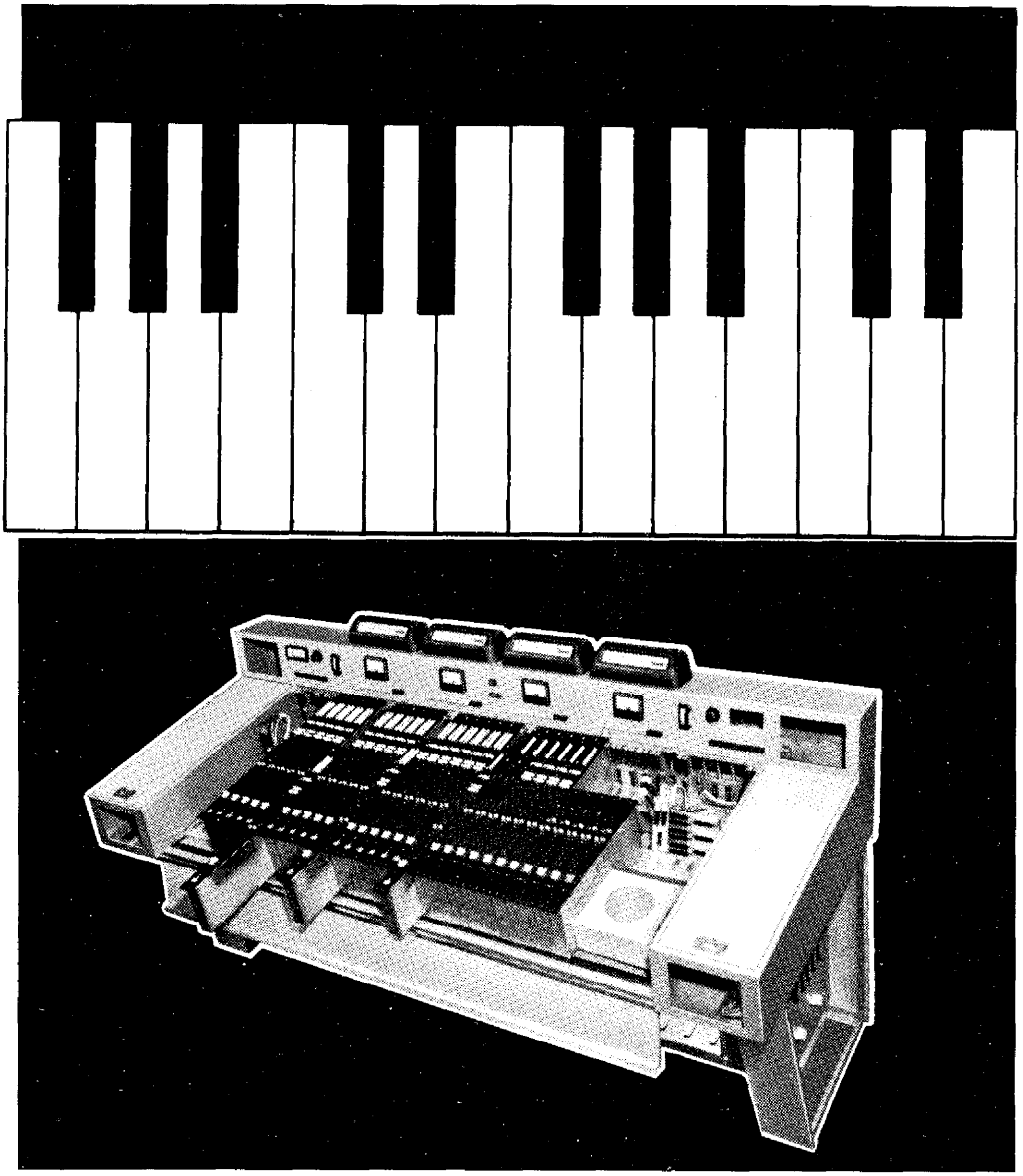
DIRRECION GENERAL DE TELECOMUNICACIONES
Departamento de Radiodifusion — ADDR: Col. Narvarte, Mexico, DF.

STATIONS:
Medium Waves: Call XE--. ° = shortwave. a) belongs to RCN.

Call	kHz	kW	Name, location & h of tr.
1) WA	540	150	La Voz de la América Latina, San Luis Potosi
2) KL	550	1	R. XEXL, Jalapa: 12.30-05.00
3) QW	a550	5	R. Mexicana de Mérida, Mérida
4) UC	550	1	R. XEUC, Tehuantepeque
5) OC	560	1.5/1	R. XEOC, México
6) LQ	570	1	R. XELQ, Morelia
7) NZ	570	1/0.25	R. Impulsora de Culiacán, Culiacán
8) OA	a570	5/0.25	R. Oaxaca, Oaxaca
9) TJ	570	1/0.1	R. XETJ, Torreón
10) VX	570	1/0.25	R. XEVX, Comalcalco
11) AV	580	10	R. Guadalajara, Guadalajara: 12.00-07.00
12) DZ	580	1/0.45	R. XEDZ, Córdoba
13) FI	580	5/0.25	Pregonero del Edo, Chihuahua
14) HP	580	1/0.25	R. XEHP, Ciudad Victoria
15) MU	580	5/0.25	R. XEMU, Piedras Negras
16) UE	a580	5	La Voz de Chiapas, Tuztla Gutierez
17) E	590	1/0.15	R. XEE, Ponte Durango
18) FD	590	5/0.25	R. XEFD, Rio Bravo
19) HQ	590	1/0.5	R. Hermosillo, Hermosillo
20) PH	590	5	R. 590, México: 12.00-08.00
21) BB	a600	5/1	R. Acapulco, Acapulco
22) DN	600	1	R. Difusora del Norte, Ponte Torreón
23) Z	a600	2	La Voz de la Peninsula, Mérida
24) BX	610	5	R. Coahuila, Sabina: 11.30-05.00
25) CV	a610	1/0.25	R. XECV, Ciudad Valles: 12.00-05.00
26) EL	610	1/0.25	R. Difusora XEEL, Fresnillo: 12.30-05.00
27) GS	610	1/0.5	R. Guasave, Guasave
28) JA	610	1/0.5	R. XEJA, Jalapa
29) KZ	a610	1/0.5	La Voz del Istmo, Tehuantepec
30) UF	610	5/1	R.XEUF, Uruapan
31) BU	620	5/0.25	R. XEBU, Chihuahua
32) CK	620	1/0.1	R. Difusora XECK, Durango
3) NK	620	10/5	R. 620, México
34) OO	a620	1/0.25	R. XEOO, Ponte Tepic
35) ACA	a630	1	La Voz de Acapulco, Acapulco
36) ACM	630	1	R. XEACM, Villahermosa
37) FB	630	5/1d	Emis. Incorporadas de Monterrey
38) FU	630	5	R. XEFU, Cosamaloapan: 16.00-23.00, 00.00-05.00
39) JB	°630	0.5	Emis. Casa de la Cultura, Guadalajara: 20.00-05.00
40) TK	a630	1/0.25	R. Emis. Occidental, Mazatlan
41) TS	°630	1/0.5	R. XETS, Tapachula: 12.00-03.00
42) TNT	650	1	R. XETNT, Los Mochis
43) ZM	650	5	La Voz del Comercio, Zamora

Call	kHz	kW	Name, Location & h. of tr.
44) RPM	660	10/5	R. XERPM, México
45) IS	670	1	R. Sistema del Pacifico, Ci. Guzman
46) TOR	a670	1	La Voz de Coahuila, Matamoros
47) FJ	680	1/0.1	R. XEFJ, Tezinutlan
48) FO	680	1	R. XEFO, Chihuahua
49) KQ	a680	5/0.5	R. Soconusco, Tapachula
50) LG	680	10/5	R. Impulsora del Centro, Leon
51) ORO	680	1	R. XEORO, Guasave: 13.00-01.30
52) N	690	20/5	R. Sistema México, México
53) TRA	690	50d	R. del Pacifico, Tijuana: 24 h
54) AR	700	1d	R. XEAR, Zapopan
55) BL	710	5/0.25	R. Difusora XEBL, Culiacán
56) KU	a710	1	R. Paraiso, Acapulco
57) MP	°710	1/0.5	R. Difusora XEMP, México: 12.00-06.00
58) ON	710	2/1	R. XEON, Gutierréz
59) RL	710	1/C.2	R. XERL, Colima
60) X	°730	50	R. Difusora México, México: 12.00-06.00
61) ZZ	760	5d	R. Melodia 76, Tonalá
62) ABC	760	5	México Radio, Los Reyes
63) DGO	a760	1	R. Durango, Durango
64) BI	790	1/0.25	R. XEBI, Aguascalientes
65) FE	790	1/0.5	R. XEFE, Nuevo Laredo
66) GZ	790	1/0.25	R. XEGZ, Torreón
67) NT	790	5	R. XENT, La Paz: 14.00-07.00
68) RC	790	10/1	R. Popular de México, México
69) RPC	790	5/0.4	R. TV Parral, Chihuahua
70) SU	790	1d	R. XESU, Mexicali
71) VA	a790	5/0.2	R. Tabasco, Villahermosa
72) AN	800	1d	R. Ocotlán, Ocotlán
73) LO	800	150	R. Difusora Continental, Ci. Juarez
74) MMM	800	1	R. XEMMM, Tijuana
75) FW	a810	50/30d	R. XEFW, Tampico
76) OE	810	1	R. XEOE, Tapachula
77) RSV	810	5	R. XERSV, Ci. Obregon
78) UX	810	5d	R. XEUX, Tuxpan
79) BA	a820	1	R. Tapatia, Guadalajara
80) KG	820	1	R. Fortin, Fortin
81) LA	830	10/5d	R. Metropolitan, México
82) NSM	830	1	R. XENSM, Navolato
83) FG	840	1d	R. Difusora XEFG, Celaya
84) TQ	850	10d	R. XETQ, Orizaba
85) M	a850	5	R. XEM, Chihuahua
86) ZR	850	1d	R. XEZR, Zaragoza
54) MIA	850	1d	R. XEM1A, Chalapa
87) US	°850	1	R. Universidad de Sonora, Hermosillo: 17.00-03.00
88) AL	860	1d	R. Difusora XEAL, Manzanillo
89) DU	a860	1/0.5	R. XEDU, Ponte Durango
90) MO	860	5	R. XEMO, Tijuana
91) NL	860	5	Propulsora del Radio, Monterrey: 12.00-19.00
92) NW	860	1/0.25	R. XENW, Culiacán
93) RK	860	1	R. XERK, Tepic
94) UN	°860	50	Universidad Nac. de México, México: W 13.00-07.00, Sun 13.00-04.00
95) ZX	860	1/0.15	R. XEZX, Tenosique
96) EM	a880	1d	R. Difusora XEEM, Rio Verde
97) TZ	880	1	R. XETZ, Tequila
1) W	°900	250	La Voz de la América Latina, México: 12.00-05.00
98) HO	a910	1/0.25	R. XEHO, Ci. Obregon
99) BH	°920	5/1	El Heraldo de Sonora, Hermosillo: 12.00-05.00
100) BM	920	5/1	R. XEBM, San Luis Potosi
101) CQ	a920	1/0.1	R. Culiacán, Culiacán
102) MJ	a920	1	R. Popular Fronteriza, Piedras Negras: 12.00-05.00
103) LT	920	1	R. Tapatia, Guadalajara
104) OK	920	1/0.25	R. XEOK, Monterrey
105) QD	920	1d	R. 920 de Chichuahua, Chihuahua
106) U	°930	0.5	R. Eco de Sotavento, Veracruz
107) Q	°940	50	R. Difusora XEQ, México: 12.36-09.16
108) WV	940	1d	R. XEWV, Mexicali
109) GM	950	3/2.5d	R. XEGM, Tijuana
110) RN	950	1	R. TV del Valle, Montemorelos
111) YJ	a950	1/0.1	Television Norteña, Nueva Rosita
112) K	960	5/1	El Pregonero del Bravo, Nuevo Laredo
113) CS	960	1/0.1	R. XECS, Manzanillo
114) GB	960	1/0.5	R. XEGB, Coatzacoalcos
115) HK	960	1	La Voz de Guadalajara, Guadalajara: 12.00-07.00
116) OZ	960	1/0.25	R. Difusora XEOZ, Jalapa
117) IQ	a960	1/0.1	R. XEIQ, Ci. Obregon
118) KS	a960	0.5/0.1	R. XEKS, Saltillo
119) MM	960	1	R. Promotora de Morelia
120) ROO	a960	1/0.5	R. Difusora XEROO, Chetumal
121) J	a970	10/5	Mexican Broadc. Co, Ci. Juárez
122) O	970	1	R. El Callo, Matamoros
123) BJ	970	1/0.25	R. TV de Ciudad Victoria
124) CJ	970	1	R. XECJ, Apatzingan
125) MH	970	1/0.1	R. Mérida, Mérida
107) DF	°970	10/5d	R. Difusora XEQ, México: 12.36-09.16
126) OW	970	1/0.25	R. XEOW, Mazatlán
10) VT	970	5/0.4	R. XEVT, Villahermosa
127) UG	970	5	Universidad de Guanajuato, Guanajuato: 15.00-07.00
128 KE	980	1/0.25	R. Navojoa, Navojoa
129) LC	980	5/0.2	R. XELC, Piedad
130) NR	a980	5/0.5	R. XENR, Nueva Rosita
131) QG	980	1/0.1	R. Querétaro, Querétaro
132) TU	980	10/1	Impulsora Moderna del Radio, Tampico
133) XT	a980	1	Radiofonica de Nayarit, Tepic
134) T	980	50d	El Pregonero del Norte, Monterrey: 06.00-12.00
135) BC	990	1/0.1	R. Ciudad Guzmán, Ci. Guzmán: 06.00-12.00
136) CL	990	5	R. XECL, Mexicali
137) HZ	990	1/0.25	R. Difusora XEHZ, La Paz
138) FV	1000	1d	R. Difusora XEFV, Ci. Juárez
20) OY	°1000	10	R. Mil, México: 12.00-08.00
139) FM	1010	1/0.2	R. XEFM, Veracruz
140) HL	1010	10/5	R. XEHL, Guadalajara
141) DX	a1010	1/0.25	R. XEDX, Ensenada
142) TX	1010	1/0.25	R. Casas Grandes, Nuevo Casas Grandes
143) VK	1010	5	Emis. de Torreón, Torreón
144) WS	1010	5/0.25	R. XEWS, Culiacán
145) XL	1020	1d	R. Difusora XEXL, Patzcuaro
68) QR	1030	10/1	Corporación Mexicana de Radio, México
146) GR	1040	1	R. Favorita, Jalapa: 13.00-01.00
147) D	1050	10	R. XED, Mexicali
148) G	1050	50	La Voz de Norteamerica, Monterrey
149) DP	°1060	50d	R. Gobernación, México
150) GY	1070	1/0.25	R. Tehuacán, Tehuacán
151) IT	a1070	1	R. Voz del Carmen, Ci. del Carmen: 12.00-04.00
152) SP	1070	5	R. Impulsora de Occidente, Guadalajara: 13.00-07.00
153) OD	1090	1d	Radiofonica Veracruzana, Boca del Rio
154) RB	1090	50d	Interamericana de R. Tijuana
155) WL	1090	2.5d	R. Laredo, Nuevo Laredo
156) LEO	a1110	1	R. Sistema del Bajio, León
157) OQ	a1110	1d	R. Difusora XEOQ, Rio Bravo
1) RCN	°1110	50d	La Voz de la America Latina, México: 12.00-06.00
158) TR	1120	1d	R. XETR, Ci. Valles
159) UNO	a1120	1	R. Impulsora de Jalisco, Guadalajara
160) ZL	a1130	10	R. Difusora Moderna, Jalapa: 12.00-05.00
161) MR	1140	1/0.5	Propulsora de Radio, Monterrey
162) XF	1140	5	R. XEXF, Romita
163) AD	1150	1	R. Sinfonia, Guadalajara
164) BF	1150	1	R. Coahuila, San Pedro de las Colonias
68) JP	1150	10d	R. América, México
165) JS	1150	1/0.5	R. XEJS, Hidalgo del Parral
166) RM	1150	1/0.5	R. Comercio de Baja California, Mexicali
167) RTM	1150	1	R. XERTM, Macuspana
168) XZ	a1150	1/0.2	R. XEXZ, Zacatecas
169) IW	1160	1	R. XEIW, Uruapan
170) RT	1170	5d	R. Televisora Siglo XX, Reynosa
171) FR	1180	1/0.25	R. Felicidad, México
172) MBC	1190	1	R. XEMBC, Mexicali
173) PZ	a1190	1d	R. Difusora XEPZ, Ci. Juárez
174) ZI	1200	1d	La Voz Comercial de Michoagan, Zacapu
107) B	°1200	100	R.XEB, México: 12.36-09.16
175) S	1240	1/0.25	R. Television de Tampico, Tampico
176) BN	1240	1/0.25	R. Delicias, Ci. Delicias
177) BQ	1240	1/0.25	R. XEBQ, Guaymas

Call	kHz	kW	Name, Location & h. of tr.
9) IZ	1240	1	R. XEIZ, Villa de Guadelupe: 12.00-06.00
178) LD	a1240	1	R. XELD, Autlan de Navarro: 13.00-01.00
179) LM	a1240	1/0.25	R. XELM, Gutiérrez
125) MQ	°1240	1/0.25	Sistema R. Yucatan, Mérida: 12.00-06.00
180) NG	1240	1	R. XENG, Huauchinango
181) RZ	1240	1/0.25	R. Television del Bajio, León
182) DK	1250	5/1	R. Televisora de Jalisco, Guadalajara
183) DL	a1250	1/0.5	R. XEDL, Ptes. Hermosillo
184) JX	1250	1/0.1	R. Emis. Querétana, Querétaro
185) PI	1250	1/0.1	R. XEPI, Tixtla
186) SJ	1250	1/0.5	R. Saltillo, Saltillo
187) TF	°1250	0.5	La Voz de Veracruz, Veracruz: 12.00-06.00
188) L	1260	10/1	R. Impulsora Herdez, Mexico
189) R	1260	1/0.25	R. Linares, Linares
190) MF	1260	1/0.25	R. XEMF, Monclova
191) OG	1260	1/0.15	R. Difusora XEOG, Chihuahua
192) AX	1270	5/0.5	R. XEAX, Oaxaxa
193) GL	1270	1/0.5	R. XEGL, Navojoa
194) MW	1270	1d	R. San Luis, San Luis Rio Colorado: 14.00-02.00
195) NY	1270	1/0.25	R. XENY, Nogales
196) PV	1270	1/0.25	R. XEPV, Papantla de Olarte
197) ZU	1270	1/0.25	Promotores de Radio, Zacapu
198) AG	1280	1	R. XEAG, Córdoba
91) AW	1280	5	R. XEAW, Monterrey: 12.00-20.00
199) BW	1280	1/0.6	R. Emis. del Norte, Chihuahua
200) CAM	a1280	1	R. Campeche, Campeche
201) AP	1290	1/0.1	R. XEAP, Ci. Obregon
202) DA	°1290	10/1	La Hora Exacta, México: 24h
203) IX	1290	1	R. XEIX, Jiquilpan
204) JL	1300	1/0.25	R. XEJL, Guamuchil
205) LE	1300	1/0.15	R. XELE, Tampico
206) P	1300	1/0.15	R. XEP, Ci. Juárez
207) HU	a1300	1	R. Tropical, Martinez de la Torre
208) KW	a1300	1	R. XEKW, Morelia
209) SW	1300	1d	R. Difusora XESW, Ci. Madera
210) XW	1300	1/0.1	R. Trece, Nogales: 13.00-05.00
211) AM	1310	1/0.25	R. XEAM, Matamoros
212) BP	1310	5/0.25	La Voz de la Laguna, Torreón
213) FH	1310	1d	R. XEFH, Agua Prieta
214) HV	1310	1	R. Heroica, Veracruz
215) PO	a1310	1/0.25	Ondas Populares, S. L. P.
216) RU	°1310	1/0.25	R. Universidad de Chihuahua
217) TIA	1310	1/0.25	R. Sinfonia, Guadalajara
68) AI	1320	10/1	R. Aeropuerto, México
218) NI	1320	1	R. XENI, Nueva Italia
219) RJ	a1320	1/0.5	R. Mazatlan, Mazatlan
220) UH	1320	1/0.1	R. XEUH, Tuxtepec
221) UI	1320	1/0.5	R. XEUI, Comitan
222) BO	1330	1d	R. XEBO, Irapuato
223) FC	1330	1	R. XEFC, Mérida
224) RP	1330	1/0.1	R. XERP, Ci. Madero
225) UZ	1330	1	R. XEUZ, Martinez de la Torre
226) WQ	1330	1d	R. XEWQ, Monclovia
227) CW	1340	1	R. XECW, Los Mochis
228) JK	1340	1/0.25	La Voz de Delicias, Delicias
182) DKT	1340	1	R. TV de Jialsco, Guadalajara: 12.00-06.00
229) NV	1340	1/0.25	R. XENV, Monterrey
230) OM	1340	1/0.25	R. XEOM, Cuatzacoales
231) MA	a1340	1	R. XEMA, Fresnillo
232) SL	1340	1	R. Futurama, San Luis Potosi
202) QK	°1350	1	La Hora Exacta, México: 24h
233) JF	1350	1	R. XEJF, Tierra Blanca
234) TB	1350	5	R. Laguna, Torreón: 12.55-05.00
235) TM	a1350	1	R. XETM, Naco
236) Y	a1360	1	R. XEY, Celaya: 12.00-05.00
237) KF	1360	1/0.25	R. XEKF, Iguala
238) SA	a1360	1/0.5	La Voz de Sinaloa, Cualicán
239) A	1370	1	R.XEA, Campeche
240) HF	1370	5	R. XEHF, Nogales
241) PA	a1370	5	R. Angelópolis, Puebla: 12.00-06.00
20) CO	1380	5	R. Eco, México: 12.00-08.00
242) GW	1380	1	R. XEGW, Ci. Victoria: 11.30-05.00
243) OR	1390	1	R. El Callo, Reynosa
244) TL	1390	5	La Voz de las Huaxtecas, Tuxpan: 12.00-04.00
245) TY	1390	5	R. Tecoman, Tecomán: 13.00-04.00
246) AB	1400	1	R. XEAB, Santa Ana
247) GD	1400	1/0.2	R. Difusora XEGD, Hidalgo del Parral
248) I	1400	1/0.25	R. XEI, Morelia
249) KJ	1400	1/0.5	R. Mar, Acapulco
250) LH	1400	1	R. XELH, Acaponeta
251) PB	1400	1	R. XEPB, Hermosillo
252) TO	1400	1	R. Tiempo, Tampico
253) VV	1400	1/0.15	Voz y Vida de Chiapas, Chiapa de Corzo
254) AS	1410	1/0.25	R. XEAS, Nuevo Laredo
20) BS	°1410	5/1	R. Sinofola, México: 12.00-08.00
255) CF	1410	1/0.5	R. XECF, Los Mochis: 12.55-06.00
256) KB	1410	5/0.25	Promotriz Radiofónica, Atemajac
257) TAB	a1410	1	La Voz de Tabasco, Villahermosa
258) F	1420	5/0.5	R. XEF, Ci. Juárez
259) H	1420	1	R. Monterrey, Monterrey
260) EW	1420	1d	R. XEEW, Matamoros
38) JV	1420	1	R. XEJV, Jáltiplan: 16.00-22.00, 00.00-04.00
125) UP	1420	1	La Voz del Caribe, Tizimin
261) WE	1420	5	R. Irapuato, Irapuato: 24 h
262) WJ	1420	1/0.25	R. XEWJ, Tehuacan
263) XX	1420	2	R. XEXX, Tijuana: 02.00-09.00
264) IG	a1430	1/0.1	R. Difusora XEIG, Iguala
265) LL	1430	1/0.25	R. Jorocha, Veracruz
266) LY	1430	1d	R. XELY, Morelia
267) OX	1430	5/0.5	R. XEOX, Ci. Obregon
268) RAC	1430	1	R. Colonial, Campeche: 12.00-05.00
269) WD	a1430	2/0.15	R. Difusora XEWD, Ci. Miguel Aleman
68) LZ	1440	5/1	R. Variedades, México: 12.30-08.30
270) CM	á1450	1/0.25	R. Difusora XECM, Ci. Mante: 13.00-06.00
271) DJ	1450	1	R. XEDJ, Magdalena
272) GC	a1450	1	R. XEGC, Sahuyo
273) JD	1450	1/0.25	R. Tropicana, Poza Rica: 12.30-04.30
274) NA	1450	1/0.5	R. Emis. Quéretana, Quéretaro
275) PP	1450	1/0.25	La Voz de Orizaba, Orizaba
125) PY	1450	1	La Voz del Mayab, Mérida
276) VH	1450	1/0.25	R. XEVH, Valle Hermoso
277) HE	1460	1	R. Satelite, Altonilco el Alto: 12.00-01.00
267) HX	1460	1/0.26	R. XEHX, Ci. Obregón
278) JT	1460	1d	Musica Radiofónica, Altamira: 12.00-04.00
279) LX	1460	10d	R. XELX, Zitacuaro
280) XQ	°1460	0.25	R. Universidad Nac. Potosina, San Luis Potosi: W 16.00-5.00,
281) YC	1460	1	R. XEYC, Ci, Juárez
268)	1460	5	R. Champoton Campeche
282) BBC	a1470	5	R. XEBBC, Tijuana
283) DS	1470	1/0.2	R. Colima, Colima,
284) HI	1470	1/0.25	R. Difusora XEHI, Ci. Miguel Aleman
285) ND	a1470	1	Emis. de Durango, Durango
286) SM	1470	10/5	R. Dif. Comercial XESM México
287) YA	a1470	1	R. XEYA, Irapuato
288) HM	1480	1d	R. Difusora XEHM, Ci.Delicias
289) NS	1480	1	R. XENS, Navojoa
273) PR	1480	5	Radiofónica de Poza Rica: 12.00-04.00
91) TKR	1480	1	R. XETKR, Monterrey: 11.00-19.00
290) DR	1490	1/0.25	R. XEDR, Guaymas
291) ED	1490	1/0.25	R. Difusora XEED, Ameca
292) FF	1490	1/0.25	R. Difusora XEFF, Matehuala
293) GT	1490	1/0.25	R. Zamora, Zamora
268) ME	1490	5	R. Valladolid, Yucatan: 12.00-24.00
294) VZ	1490	1/0.2	R. XEVZ, Acayucan
295) XE	1490	1	R. Hit, Quéretaro
296) RH	°1500	20d	R. Difusora Comerciales, México: 13.00-07.00
297) SD	a1530	1d	R. Silao, Silao
20) UR	1530	5	R. Unión, Texcoco: 12.00-08.00
236) NC	1540	1/0.25	R. XENC, Celaya: 12.00-05.00
298) BG	a1550	5	R. XEBG, Tijuana
299) NU	1550	5d	R. XENU, Nuevo Laredo
300) RX	1560	1/0.25	R. XERX, Salamanca
301) VIP	1560	1/0.5	R. XEVIP, Ci. Satélite
302) RF	1570	250	R. Difusora de Coahuila, Ci. Acuña



Die neue Compact-Modul-Bauweise für Studio-Regietische.

Universelle Verwendbarkeit, kompakter Aufbau, vielfältigste Schalt- und Regelmöglichkeiten sowie logische und komfortable Bedienung sind nur einige der vielen Vorzüge dieser neuen Technik.

NACHRICHTENTECHNISCHE WERKE AG.

GENERALVERTRETUNG DER SIEMENS AG. FÜR ÖSTERREICH IM BEREICH NACHRICHTENTECHNIK

Abteilung für Studiotechnik Apostelgasse 12, A 1031 Wien

Mexico

Call	kHz	m	kW	Name and h of tr.
303) DM	1530	50		R. Pacifico, Hermosillo: 10.45-07.00
304) LI	a1580	1		La Voz del Sur, Chilpancingo: 12.00-04.00
305) NQ	1580	1/0.5		R. Tulancingo, Tulancingo: 12.00-04.00
306) QL	a1580	1/0.2		R. XEQL, Zampora
267) NH	1590	1/0.2		R. XENH, Escuintla
307) VOZ	°1590	10/5		R. Difusora XEVOZ, México
308) BZ	a1590	1d		La Voz de Meoqui, Meoqui
309) AK	a1590	1		R. Impulsora del Norte, Ci. Acuña: 24 h

Short Waves: Call XE--. * = inactive.

Call	kHz	m	kW	Name and h of tr.
310) VJ	2160	139.39	0.25	R. Dif. XEJV, Chilpancingo
311) SE	2380	126.0	0.35	Sria. de Educación Publica, México
39) JG	4820	62.24	0.2	Emis. Casa de la Cultura-Guadalajara: 20.00-05.00
312) UMT	5960	50.34	0.31	UniversidadIboamericana, México: 14.00-01.00
20) OI	6010	49.92	0.25	R. Mil, México: 12.00, 08.00
106) UW	6020	49.88	5	R. Eco de Sotavento, Vera Cruz: 13.00-06.00
280) XQOC	6045	49.63	0.25	R. Universidad Nac. Potosina, San Luis Potosi: 16.00-05.00 (Sun 13.00-03.30)
60) XG	6065	49.46	10	R. Dif. México, México: 12.00-06.00
270) CMT	6090	49.26	1	R. Dif. XECM/XECMT, Ci. Mante: 13.00-06.00
125) QM	6105	49.14	1	Sistema R. Yucatan, Mérida: 12.00-06.00
87) UDS	6115	49.06	1	R. Universidad de Sonora, Hermosillo: 17.00-03.00
41) TS	6120	49.02	0.5	R. XETS, Tapachula, Chis: 12.00-03.00
313) RCM	*6130	48.94	0.1	R. Central de México
216) RUU	6140	48.86	0.3	R. Universidad de Chihuahua: 13.00-05.00
1) WW	6165	48.66	10	La Voz de la América Latina, México: 12.00-06.00
149) XA	*6175	48.58	0.1	R. Gobernación, México
314) ICM	6185	48.50	1	La Voz del Maestro, México: 14.00-04.00
1) WW	9515	31.53	10	La Voz de la América Latina, México: 12.00-06.00
187) FT	9545	31.43	0.25	La Voz de Veracruz: 12.00-06.00
202) QK	9555	31.40	1	La Hora Exacta, México: 12.00-06.00
94) YU	9600	31.25	1	Universidad Nac. de México: W 13.00-07.00, Sun 13.00-04.00
107) QQ	*9680	30.99	1	R. Dif.. XEQ/XEQQ, México
57) MP	11740	25.55	5	R. Dif. XEMP, México: 12.00-06.00
99) BR	11820	25.38	1	El Heraldo de Sonora, Hermosillo: 13.00-06.00
296) RH	11880	25.25	5	R. Dif. Comerciales, México: 13.00-07.00
296) RR	15110	19.85	5	R. Dif. Comerciales, México: 13.00-06.00
1) WS	15160	19.79	10	La Voz de la América Latina, México: 12.00-06.00
307) VOZ	*15200	19.74	5	R. Dif. XEVOZ, México

Addresses & other information:
1) R. Cadena Nacional, S.A, Apt. Postal M-7892, México 4, DF. Te: 469648. Cable: RCN. L.P: Dir. Gen: D. R. Cutberto Navarro. Dir: M. Vazquez G. Dir. Tec: E. Diaz. G. Dir. Adm: G. Lopez A. D.Prgr: (Relay st: XEWA, XEWK, XEWA). N: 12.30, 13.35, 14.00, 14.15, 19.30, 20.30, 01.40, 04.20, 04.25, 05.30, 06.00. V. by letter. Rp.
2) Zamora 12, Jalapa, Ver. L.P: Dir. Gen: C. Ferraez M.
3) Ca. 64 No. 526, Mérida, Yuc.
4) Hidalgo 19, Tehuantepec, Oax.
5) Av. Chapultec 471, 40°piso, México, DF.
6) Morelos Nte 68, Morelia, Mich.
7) Blvd. 50, Oriente, Culiacán, Sin.
8) C. Bustamente 17, Oaxaca.
9) Av. Lerdo de Tejada 1564, Torreón, Coah.
10) Zaragoza Sur 3, Villahermosa, Tabasco: XEVX: Morelos 58, Comalcalco, Tab.
11) Av. Vallarta 1458, Guadalajara, Jal. L.P: Dir. Gen: M. López D. FM: 100.3MHz. D.Prgr: N: 14.00-02.00 every h on the h. V. by letter.
12) Av. 3 No. 551, Cordoba, Ver.
13) Libertad 1302, Chihuahua.
14) Ca. 14 No. 150, Ci. Victoria, Tams.
15) Carranza 3 Piedras Negras Coah.
16) Ca. Central 5, Tuxtla Gutierez, Chis.
17) 20 de Noviembre 122, Pte. Durango, Dgo.
18) Carretera a Matamoros, Rio Bravo, Tams.
19) Rosales y Vildósola, Hermosillo, Son.
20) Insurgentes Sur 1870, México, DF. Te: 242868. L.P: Dir. Gen: E. Guillermo Salas. Gen. Mgr: C. Flores. Dir. Tec: Ing. J. Garcia R. D.Prgr: N: 13.30, 14.30, 16.00, 18.00, 20.00, 21.00, 22.00, 01.00, 02.00, 03.00, 04.25. V. by letter. Rec. acc. (XEPH = R. 590, XECO = R. Eco, XEBS = R. Sinofola, XEUR = R. Union, Texcoco).
21) Morelos 3, Acapulco, Gro.
22) Av. Juarez 1465, Pte. Torreón, Coah.
23) Ca. 56 No. 508, Mérida, Yuc.
24) Apt. 60, Ci. Sabinas, Coah. L.P: Dir. Gen: R. Boone. M. Dir. Tec: A. Peña B.
25) Apt. 36 y 231, Ci. Valles, S.L.P. L.P: Dir. Gen: R. Castro T. Dir. Tec: G. Martinez E. V. by QSL-card. Rec. acc.
26) Apt. 18, Fresnillo, Zacatecas. L.P: Dir. Gen: J. A. Casas T. V. by letter.
27) Zaragosa 45, Guasave, Sin.
28) Pasaje Tanos, Ca. Enriques, Jalapa, Ver.
30) Portal Rafaez Carrillo 8, Uruapan, Mich.
31) V. Carranza 1816-18, Chihuahua, Chih.
32) 20 de Noviembre y Victoria, Durengo, Dgo.
33) Balderas 32, México, DF.
34) Lerdo 197, Pte. Tepic, Nayarit.
36) Sáenz 45, Villahermosa, Tab.
37) 5 de Mayo 112, Monterrey, NL.
38) Apt. 18, Cosamaloapan, Ver. L.P: Dir. Gen: A. AgureirS.
39) Gobierno del Estado de Jalisco, Palacio de Gobierno, Guadalajara.
40) Angel Flores 8, Mazatlan, Sin.
41) Central Sur 109B, Tapachula, Chis. L.P: Dir: C. Lopéz A Dir. Tec: R. Lopéz M. V. by QSL-card. Rec. acc. Rp.
43) 5 de Mayo 30, Zamora, Mich.
44) Dr. Rio de la Loza 56, México, DF.
45) KM 126 Cra. Guadalajara, Ci. Guzman, Jal.
47) B. Juarez 86, Teziutlan, Pue.
49) Parque Infantil, Tapachula, Chipas.
50) Paseo de los Insurgentes 1, León, Gto.
51) Apt. Postal 68, Guasave, Sin. L.P: Dir. Gen: O. Chávez C.
52) Dr. Rio de la Loza 182, México, DF.
53) Apt. 100, Tijuana, BC. L.P: Dir. Gen: L. Carrillo S. FM: 91.3MHz. V. by QSL-card. Rec. acc.
54) Ave. Colon 115, Guadalajara, Jal.
55) Blvd. 5 Febrero 50, Culiacán, Sin.
57) Quemada 40, México, DF.
58) Ia Av. Norte 2, Tuxtla, Gutierréz, Chis.
59) 27 de Septiembre 290, Colima, Col.
60) Morelos 16, México, DF. XEXG: Apt. 484, León, Gto. L.P: Dir. Gen: M. O'Farrill. Dir. Tec: J. G. Torres. XEX rel. st's (all on 730kHz): León (Gto) 100/50kW, Veracruz (Ver) 1kW and 5 st's of 0.5kW at Monterrey (NL), Saltillo (Coah), Torreón (Coah), Guadalajara (Jal), San Luis Potosi (SLP). D.Prgr: 12.00-06.00. N: 12.30, 12.55, 20.30, 05.00, 05.55; W 14.00, 17.00; also every 15 min (short bulletins).
64) Madero 310, Aguascalientes, Ags.
65) Aldama 2611, Nuevo Laredo, Tams.
67) Apt. 222, La Paz, BC. L.P: Dir. Gen: F. King.
68) Articulo 123, No. 90, México, DF. XERC: R. Popular de México. XEQR: Corporación Mexicana de Radio. XEPJ: R. América. XEAI: R. Aeropuerto. XELZ: R. Variedades.
69) Hotel Victoria, Chihuahua, Chih.
70) Edif. Bertha, desp. 222, Mexicali, BC.
71) Av. Pino Suarez 24A, Villahermosa, Tab.
72) Juarez 127, Ocotlán, Jal.
73) Mérida 1155, Ci. Juarez, Chih.
74) Blvd. 14, Tijuana, BC.
75) Madero 416, Ote. Tampico, Tams.
77) Rep. de Ecúador 225 Súr, Ci. Obregon, Son.
78) Hidalgo y Progreso, Tuxpan, Nayarit.
79) Av. de las Ciencias 260, Guadalajara, Jal.
80) Apt. 4, Fortin, Ver.
81) Tiber 100, México, DF.
82) Calz. Almada 29, Altos 8, Navolato, Sin,
83) Independencia y Madero, Celaya, Guanajuato. L.P: Dir: R. Olivares G.
84) Oriente 4 No. 5-B, Orizaba, Ver.
85) J. J. Calvo 100-B, Chihuahua, Chih.
86) Zaragoza 505 Sur, Zaragoza, Coah. V. by letter.
87) Edif. del Museo y Biblioteca, Hermosillo, Son. Te: 37905. L.P: Dir. Gen: A. Merino M. Dir. Tec: J. H. Sanchez. D.Prgr: N: 20.20. V. by QSL-card. Rec. acc.
88) Balbino Davelos 17, Manzanillo, Col.

89) 20 de Noviembre 105, Pte. Durango, Dgo.
90) Apt. 860, Tijuana, BC. +
91) Apt. 1330, Monterrey, NL. L.P: Dir. Gen: J. D. González. Mgr: F. A. González (XENL 860, XEIZ 1240, XEAW 1280, XETKR 1480). V. by letter. Rec. acc.
92) Matamoros 14, Culiacán, Sin.
93) Av. México 224, Nte. Tepic, Nay.
94) Oficinas Técnicas, Ci. Universitaria, México 20, DF. Te: 481157. L.P: Dir. Gen: J. Gutierrez H. Dir. Tec: O. Velasquez. D.Prgr: R. Lopez. D.Prgr: N: W 14.30, 21.00, 04.05, 06.00. FM: 96.1MHz 1kW. V. by letter. Rec. acc.
95) Ca. 26 No. 5, Tenosique, Tab.
96) Aldama 55, Río Verde, S.L.P.
98) Veracruz 63 Sur Altos, Ci. Obregon, Son.
99) P.O. Box 68, Hermosillo, Son. D.Prgr: N: Every h on the h. V. by letter.
100) Jardin Hidalgo 15, San Luis Potosi, S.L.P.
101) Escobedo 226, Pte. Culiacán, Sin.
102) Apt. 57, Piedras Negras, NL. L.P: Dir. Gen: J. F. Elizondo V. D.Prgr: N: 02.00. V. by letter. Rec. acc.
103) See 79).
104) Xicotencatl 1051, Monterrey, NL.
105) Ca. Victoria 319, Chihuahua, Chih.
106) Av. Independencia 230, Veracruz, Ver. V. by letter. Rec. acc.
107) Dr. Rio de la Loza 182,20° piso, México, DF. Te: 18-52-00. D.Prgr: N: Every h on the h. V. by QSL-card or letter.
108) Apt. 1553, Mexicali BC.
109) Av. "G" 185, Tijuana, BC.
111) Apt. Postal 16, Nueva Rosita, Coah.
112) Gen. Gonzales 1609, Nuevo Laredo, Tams.
113) Zaragoza y Allende, Manzanillo, Col.
114) 3a Hidalgo 37, Coatzacialcos, Ver.
115) P. Moreno 315, Desp. 203, Guadalajara, Jal. L.P: Dir. Gen: F. E. Fregosos.
116) Paseja Enriques Local F, Jalapa, Ver.
117) Sinaloa 418 Sur, Ci. Obregon, Son.
118) A. Zaragoza Lado, Nte. Saltillo, Coah.
119) Bartolomé de las Casas 230, Morelia, Mich.
120) La Voz de Quintana Roo, Chetumal, QR.
121) Ca Constitucion 402, Ci. Juárez, Chih.
122) Ca. Novena 49, Matamoros, Tams.
123) Matamoros 738, Ci. Victoria, Tams.
124) Apt. Postal 106, Apatzingan, Mich.
125) Apt. Postal 217, Merida, Yuc. Te: 4071. L.P: Dir. Gen: R. Dominguez L. St. Mgr: A. Iglesias. Dir. Tec: H. Padron M. N: Every h on the h. V. by letter (XEMH: R. Merida, Ca. 62 No. 526, Merida, Yuc; XEUP: La Voz del Caribe, Ca. 50 No. 410, Tizimin, Yuc; XEPY: La Voz del Mayab, Ca. 62 No. 508, Merida).
126) L. Valle y Aquiles Serdan, Mazatlán, Sin.
127) Domicilio Conocido, Guanajuato, Gto. V. by letter. Rec. acc.
128) Morelos y Toledo, Navajoa, Son.
129) Av. Francisco I, Madero 116, La Piedad.
130) Juárez 6, Altos, Nueva Rosita, Coah.
132) Ca. Muelle y S. Diaz, Tampico.
133) Veracruz Nte. 135, Tepic, Nay.
134) 15 de Mayo Ote 650, Monterrey, NL. L.P: Dir. Gen: J. Orozco A. FM: 94.1MHz. V. by letter. Rec. acc.
135) Apt. 60, Ci. Guzmán, Jal. L.P: Dir. Gen: R. Perez G.
136) Av. Madero 621, Mexicali, BC.
137) Carret Transpeninsular Km 5, La Paz, BC.
138) Maxtla 519, Ci. Juaréz, Chih.
139) Av. Independencia 144, Veracruz, Ver.
140) Av. de las Ciencias 260, Guadalajara, Jal.
141) Km 100, Carretera a Tijuana, Ensenada, BC.
142) Av. P. Diaz y Minerva 400, Nuevo Casas Grandes, Chih.
143) Av. Juaréz 1465, Torreón, Coah.
144) Rubi 20, Nte. Depto I, Culliacán Sin.
145) Apt. 10, Patzcuaro, Mich. L.P: Dir. Gen: J. Laris I. D.Prgr: N: 15.00, 22.00. V. by letter. Rec. acc.
146) Paseje Tanos, Loc. 8, Jalapa, Ver. L.P: Dir. Gen: J. Ferraez M. Mgr: J. R. Juarez T. V. by letter. Rec. acc.
147) Edif. Berthia, desp. 222, Mexicali, BC.
148) Cuauhtemoc Norte 725, Monterrey, NL.
149) Ca. de Bucareli, México, DF (inactive both sw and mw).
150) Av. Libertad 113-4, Tehuacán, Pue.
151) Ca. 22 No. 147, Ci. del Carmen, Cam. L.P: Dir. Gen: M. A. Boeta B.
152) Av. 16 de Septiembre 520, Guadalajara, Jal. L.P: Dir. Gen: J. R. Rubio A. V. by letter. Rec. acc.
154) Apt. 1090, Tijuana, BC. L.P: Dir. Gen: T. Bichara Z. V. by QSL-card.
155) Maclovio Herrera 3422, Nuevo Laredo, Tams.
157) Apt. Postal 301, Rio Bravo, Tams.
158) Laredo 29 Sur, Ci. Valles, S.L.P.
160) Apt. 164, Jalapa, Ver. L.P: Dir. Gen: D. Mondragón G. V. by QSL-card or letter. Rec. acc.
161) Madero y Venustiano Carranza, Monterrey, NL.
163) Av. de Las Ciencias 260, Guadalajara, Jal.
164) Av. Didalgo Pte 309, San Pedro de las Colonias, Coah.
165) Colegio 14, Hidalgo del Parral, Chih.
166) Ley de Alfabetizacion 257, Mexicali, BC.
167) Constitución 9, Macuspana, Tab.
168) Miguel Lauza 10, Zacatecas, Zac.
169) Mazatlan 30, Uruapan, Mich.
170) Apt. Postal 52, Reynosa, Tams.
171) Calz Sta. Anita 137, México, DF.
174) Apt. Postal 16, Zacapú, Mich.
175) Diaz Miron 310, Tampico, Tams.
176) Av. 4a y Ca. 4a Norte, Ci. Delicias, Chih.
177) Av. Serdan y Ca. 22, Guaymas, Son.
178) Apt. Postal 7, Autlan de Navarro, Jal. V. by letter. Rec. acc.
179) Tuxtla, Gutierrez, Chis.
181) Edif. "Sears", León, Gto.
182) 16 de Septiembre 456, Guadalajara, Jal. L.P: Dir. Gen: C. Serna A. V. by letter. Rp.
183) Angel Flores 26, Ptes. Hermosillo, Son.
184) Av. Zaragoza Pte. 15, Queretaro, Qro.
185) Carretera Chilapa y Las Frondas, Tixtla, Gro.
186) M. Acuna Sur 102 "C", Saltillo, Coah.
187) Apt. Postal 74, Veracruz, Ver. Te: 2-22-50. L.P: Dir. Gen: J. de Dios Rodriguez D. Dir. Tec: L. Martinez. N: 13.15, 14.55, 03.15 and 5 min. before each h to 05.55. V. by QSL-card.
188) Insurgentes 70 Sur, México, DF.
189) Carretera Nacional México Laredo, Linares.
190) Zaragoza 158, Monclova, Coah.
191) Libertad 1302 altos, Chihuahua, Chih.
192) Av. M. Garcia Vigil 5, Oaxaxa, Oax.
193) Av. Juárez 9, Navojoa, Son.
194) Apt. Postal 203, San Luis Rio Colorado, Son. L.P: Dir. Gen: F. Gutiérrez M. D.Prgr: N: 14.00, 17.00, 01.45. FM: 173.5MHz. V. by letter. Rec. acc.
195) Av. Alvaro Obregon 38-1, Nogales, Son.
196) Mina 1, Papantla de Olarte, Ver.
197) Madero 15, Zacapú, Mich.
198) Ca. 2, 121; Córdoba, Ver.
199) Av. V. Carranza 514, Chihuahua, Chih.
201) Sinaloa 206, Ci. Obregon, Son.
202) Tiber 100, 90° piso, México 5, DF. Te: 110814. L.P: Dir. Gen: G. Mier y Teran. Dir. Tec: F. Gomez B. V. by QSL-card. Rec. acc.
204) Independencia 27, Guamuchil, Sin.
205) Muelle 304 Sur, Tampico, Tams.
206) 16 Septiembre 100, Ci. Juarez, Chih.
207) Ca. Belli 229, Martinez de la Torre, Ver.
208) Le jarza 90, Morelia, Mich.
209) Km 1, Carret. Madera, Ci. Madera, Chih.
210) Apt. 199, Nogales, Son. L.P: Dir. Gen: R. Chavez C.
211) Carret. Matamoros Victoria, Matamoros, Tams.
212) Cepeda Sur 409, Torreón, Coah.
213) Ca. 5a y Av. Panamericana, Agua Priete, Son.
214) Ocampo 50 Desp. 301, Veracruz, Ver.
215) V. Carranza 4-A, San Luis Potosi, SLP.
216) Domicilio Conocido, Chihuahua, Chih.
217) Av. de las Ciencias 260, Guadalajara, Jal.
218) Av. Lazaro Cardenás 67, Nueva Italia, Mich.
219) M. Escobedo y B. Dominguez, Mazatlan, Sin.
220) Finca. L. Angeles, Zaragoza 1625, Tuxtepec, Oax.
221) Hotel Los Lagos, Comitan, Chis.
222) Morelos y 5 de Mayo, Irapuato, Gto.
223) Ca. 64 No. 498, Mérida, Yuc.
224) A. Obregon y 2 de Enero, Ci. Madero, Tams.
225) Av. Avila Camacho y Victoria, Martinez de la Torre, Ver.
226) Hidalgo 229, Nte. Monclovia, Coah.
227) Rosendo o Catro y Allende 302, Los Mochis, Sin.
228) Av. Agricultura y Ca. 4a No. 605, Delicias, Chih.
229) Av. Madero 305 Ote, Monterrey, NL.
230) Zaragoza y Corregiodora, Coatzacoales, Ver.
231) Apt. 41, Fresnillo, Zac. L.P: Dir. Gen: J. Bonilla R.
232) ulian de los Reyes 69, San Luis Potosi, SLP.
233) Constitution 40, Tierra Blanca, Ver.
234) Apt. 225, Torreón, Coah. L.P: Dir. Gen: C. Serna M. D.Prgr: N: 14.15, 20.15, 02.15, 04.45.
235) Av. Fco. I, Madero 26, Naco, Son.
236) Apt. 116, Celayo, Gto. L.P: Dir: J. San Martin. V. by letter. Rec. acc.
237) Av. Ruiz Cortinez 35, Iguala, Gro.
238) M. Escobedo Pte. 65, Culiacán, Sin.
239) Ca. 12 No. 110, Campeche, Cam.
240) Altos Edif. Banco Agric. Ganadero, Nogales, Son.
241) Apt. 405, Puebla, Pue L.P: Dir. Gen: M. Duarte C. Dir. Tec: F. Santillana. FM: 88.1MHz.
242) 13 Hidalgo y Juárez, Ci. Victoria, Tams. V. by letter. Rec. acc.
243) P. J. Mendéz, 154 Ote, Reynosa, Tams.
244) Apt. 51, Tuxpan, Ver. L.P: Dir. Gen: C. Almazán B. Rp. Rec. acc.

245) Apt. 44, Tecomán, Col. L.P: Dir. Gen: V. M. Martinez J. V. by letter. Rec. acc.
246) Av. Obregón 207-S, Santa Ana. Son.
247) M. Herrera 79, Hidalgo del Parral, Chih. L.P: Dir. Gen: D. Salyandia N. V. by letter. Rec. acc.
248) Portal Hidalgo 213, Morelia, Mich.
249) Plaza Alvarez, Acapulco, Gro.
251) Yucatan 36 Pte, Hermosillo, Son.
252) Fco. I. Madero y Muelle, Edif. Obregón Desp. 112, Tampico, Tams.
253) Apt. 292, Tuxtla Gutiérrez, Chis. L.P: Dir: O. Chong V.
254) Guerrero y Madero Altos, Nuevo Laredo, Tams.
255) Apt. 182, Los Mochis, Sin. L.P: Dir. F. Perez A. V. by letter. Rec. acc.
258) Pasaje R. Corona 2, Ci. Juarez, Chih.
259) 5 de Mayo 110, Monterrey, NL.
260) Edif. Card. Galván, Matamoros, Tams.
261) Apt. Postal 118, Irapuato, Gto. L.P: Dir. Gen: A. Contreras H. D.Prgr: N: 14.00, 21.00, 03.15.
262) Reforma 205-C, Tehuacan, Puebla.
263) Apt. 375, Tijuana, BC. L.P: Dir. Gen: X. Sanchez M.
264) Aladama 14, Iguala, Gro.
265) Ocampo 50, Desp. 301, Veracruz, Ver.
266) Morelos Nte 68, Morelia, Mich.
267) Veracruz 63 Sur, Ci. Obregón, Son. XEHX: N. Héroes 219, Ci. Obregón, XENH (Tr. at Escuinapa, Sin.).
268) Ca. 12 No. 112, Edif. XERAC, Campeche, Cam. L.P: Dir. Gen: M. Rodriguez E.
269) Ca. Sexta 702, Ci. Miguel Aleman, Tams.
270) Apt. 79, Ci. Mante, Tams. L.P: Dir. Gen: R. Lopez Mendez. Dir. Tec: L. Fernandez C. V. by letter.
271) Av. Escobedo 98, Magdalena, Son.
272) Constitución 165, Sahuayo, Mich.
273) Av. Union y Michoacan, Poza Rica, Ver. L.P: G. Nuñez K.
274) Av. Zaragoza Pte. 15, Querrétaro, Qro.
275) Poniente 7 No. 57, Orizaba, Ver.
276) Ca. Hidalgo, Entre la y 2a, Valle Hermoso, Tams.
277) Av. Juarez 209, Tlaquepachue, Jal. L.P: Dir. Gen: M. O. Ochoa B. D.Prgr: N: Every h on the h. V. by letter. Rp. Rec. acc.
278) Altamira, Tams. D.Prgr: 12.00-04.00.
279) Av. Revolución 194, Zitacuaro, Mich.
280) Apt. 456, San Luis Potosi. Te: 2-52-52. L.P: Dir. Gen: C. Martinez Bravo. Dir. Tec: J. de La Luz Lomeli. V. by QSL-card and letter. Rec. acc.
281) Av. 16 de Septiembre, Ci. Juárez, Chih.
282) Apt. 1470, Tijuana, BC. L.P: Dir. Gen: R. Cutberto N. V. by letter. Rec. acc.
283) Apt. 147, Colima, Col.
284) Ca. Sèptime 105, Ci. Miguel Aleman, Tams.
285) Colonia Nueva Viscaya, Durango, Dgo.
286) Rebsaman 241, Col. Navarte, México, DF.
289) Av. Obregón y Ca. Pesqueira, Navojoa, Son.
290) Av. Serdán 283, Altos, Guaymas, Son.
291) Granja "El Brillante" Ameca, Jal.
292) Morelos 4, Matehuala, SLP.
293) 5 de Mayo Sur, Zamora, Mich. L.P: Dir: M. A. Sánchez.
294) Enriques 18, Acayucan, Ver.
295) Apt. 358, Querretaro, Qro. L.P: Dir. Gen: C. A. Caballero. V. by letter. Rp.
296) A.R.S.E.S.A, Quemada 40, Col. Navarte, México, DF. D.Prgr: N: 13.31, 20.45, 00.15, 04.00.
297) 5 de Mayo s/n, Silao, Gto.
298) Centro Comercial Blvd. 13, Tijuana, BC.
299) Av. Madero 2201, altos, Nuevo Laredo, Tams.
300) Morelos 104, Salamanca, Gto.
302) Galeana 130 Pt. altos, Ci. Acuña.
303) Atp. 285, Hermosillo, Son. L.P: Dir. Gen: C. V. Rodriguez. D.Prgr: N: 14.00, 17.30, 02.30, 03.45, 06.00. V. by QSL-card. Rec. acc.
304) Apt. 80, Chilpancingo, Gro. L.P: Dir. Gen: R. E. Carrión A. D.Prgr: N: 14.32, 21.36, 02.00. V. by letter.
305) Plaza Constitución y M. Soto, Tulancingo, Hgo. V. by letter. Rec. acc.
306) Apt. 40, Zamora, Mich.
307) Vazques de Mella 429, Desp. 101-A Col. Polanco México, DF.
308) Ca. 4a, Norte 605, Mequi, Chih.
309) Apt. 10, Acuña, Coah. L.P: Dir. Gen: R. R. Gonzalez.
310) Direccion Federal de Educ. del Estado Chilpancingo, Guerrero.
311) Sria de Education Pública, Dirección de Asuntos Indígenas, Sección Administrativa, México, DF (tr. at Semachique, Chih.).
312) Zaragoza 84, Coyoacan, DF (tr. at Sisoguichi, Chih).
313) Apt. Postal 7892, Mexico, DF. L.P: Dir. Gen: R. Cutberto N. Dir. Tec: E. Diaz G. D.Prgr: N: Every 5 mins before the h. V. by letter.
314) Dr. Jimenez 244, México, DF. L.P: Dir: F. Delgado C. V. by letter. Rp. Rec. acc.

NETHERLANDS ANTILLES

L.T: GMT — 4h — Pr.L: Papiamento, Dutch, English, Spanish, French, Portuguese — E.C: a/c 50 + 60 (yes).

CURACAO

RADIO CUROM
(Foundation: Curacaosche R. Vereeniging — non profit).
ADDR: P.O. Box 31, Willemstad, Curacao. Te: 12555. Cable: Curaver.
STATION: PJC-2 855kHz 350.9m 5kW.
HOME SCE: W 10.30-03.00; Sun 13.00-17.00, 20.00-03.00.
Dutch: 10.30-20.00 (Sun 13.00-17.00), 22.30-03.00. N: 11.00, 12.00, 14.30*, 16.30, 22.30†, 23.00, 02.00 — Papiamento: 20.00-22.30 (Sun 20.00-21.00). N: 16.00, 22.00 — *exc. Sat, †Sun only.
ANN: "This is R. Curom in Willemstad, Curacao, Neth. Antilles". Dutch: "Hier is de Curom te Willemstad op Curacao op een frequentie van 855kc perioden per sec".
INT-SIG: Part of the Curom-march, played by a big band.
V. by letter. Rp — FI: by adv. and donations of members.

RADIO HOYER (Cultural Comm.)
ADDR: Julianaplain 21, Willemstad. Te: 11673. Cable: Radioyer — L.P: Dir. Gen: H. E. Hoyer.
STATIONS: (1 kW).
PJC-7 1010kHz; PJC7-2 1500kHz; PJB2 1385kHz.
HOME SCE: W 09.30-04.30, Sun 12.30-03.30.
Spanish/Papiamento on 1010kHz; Dutch/English on 1500 kHz; Spanish/Papiamento/Dutch/English on 1385kHz: W 11.30-18.30, 22.30-02.30, Sun 14.30-17.30, 22.30-02.30.
ANN: English: "This is station PJC7 R. Hoyer transmitting on . . ." — V. by QSL-card — FI: Hoyer 1 and 3 by adv. Hoyer 2 on cultural basis.

RADIO CARIBE (Comm.)
ADDR: Niuwestraat 22B, Willemstad. Te: 12801. Cable: R. Caribe — L.P: Dir. Gen: C. R. Heilegger. Dir. Tec: G. A. Heilegger.
STATION: PJL3 1230kHz 0.25kW — 1540kHz 1kW.
HOME SCE: 10.00 (Sun 12.00)-04.00.
W. Papiamento: 10.00-17.00, 19.00-22.00, 01.00-04.00. N: 16.15-17.00 — Spanish: 17.00-19.00, 22.00-01.00. N: 17.00, 18.00 (VOA), 22.00, 00.15.
Sun. English (rlg. prgr's): 12.00-14.00, 22.00-23.00 — Papiamento: 14.00-17.00, 18.30-22.00, 23.00-04.00 — Spanish: 17.00-18.30 (Port m0sic with ann. in Sp.). N: 18.15 — V. by letter. Rec. acc.

ARUBA

RADIO KELKBOOM (Comm.)
ADDR: P.O. Box 146, Oranjestad. Cable: Kelkboom. Te: 1899. L.P: Mgr: Carlos A. Kelkboom.
STATION: PJA5 1435kHz 209.1m 1kW.
HOME SCE: 11.00 (Sun 14.00)-02.00 — Papiamento: N: 11.30, 12.30, 14.00, 15.00, 16.15, 16.45, 20.30, 22.00 — Spanish: Tues, Sat 00.15-00.45 — Dutch: Sun 14.30-15.00, 16.30-17.00, 20.00-20.30, 23.45-24.00; Tues 18.30-19.00; Wed 01.15-01.45 — ANN: Dutch: "Hier PJA-5 R. Kelkboom te Oranjestad Aruba". E: "This is PJA-5 R. Kelkboom at Oranjestad Aruba". Papiamento: "Ta transmiti R. Kelkboom PJA-5 na Oranjestad, Aruba" — V. by QSL-card. Rp.

RADIO VICTORIA (Owned and sponsored by The Evangelical Alliance Mission)
ADDR: P.O. Box 410, Aruba. Te: 7090. Cable: Team — L.P: Mgr: Rev. P. J. Pietsch Jr. Chief Eng: R. J. Catteau.
STATION (G.C: 69.58W/12.28N): PJA6 920kHz 326.1m 10kW.
HOME SCE: 11.30-23.30 (Sun 11.00-22.30).
English: W 11.30-12.00, 14.00-15.30, 16.30-19.30, 22.30-23.30. N: 11.30, 16.30, 22.30; Sun 11.00-13.00, 20.00-22.30.
Dutch: W 22.15-22.30. N: 22.15; Sun 14.00-15.00.
Spanish & Papiamento: W 11.00-11.30, 12.00-14.00, 15.30-16.30, 19.30-22.15. N: Every h 11.00-22.00, 11.15; Sun 13.00-14.00, 15.00-22.00.
ANN: "This is R. Victoria, the Cultural Voice of the Caribbean". Dutch: "Dit is R. Victoria, de Culturele Stem van het Caribbish Gebied". Sp: "Transmite R. Victoria, La Voz Cultural del Caribe" — V. by letter. Rp. — FI: By comm & adv. and free will offerings.

RADIO ANTILIANA (Comm.)
ADDR: Bernardstraat 61, St. Nicolaas. Te: 5602. L.P: Gen. Mgr: H. E. A. Booy. Dir's of Tec. Sec's: H. Maasdamme.
STATIONS: PJA8 1270kHz 1.25kW.
HOME SCE. in Papiamento, English, Dutch: Sun-Fri 09.30-05.00, Sat 09.30-08.00. N(W): English: 10.40, 11.40, 14.40, 16.35, 17.00. Papiamento: 11.00, 12.00, 13.30, 16.50, 17.30, 21.30, 23.00 — ANN: "This is st. PJA8, R. Antiliana, transmitting on a freq. of 1270kKz which equals a wavelength of 236.2m, from studios located in Bernardstraat, San Nicolaas, Aruba, Isle of progress in the NA" — V. by letter. Rec. acc.

"VOICE OF ARUBA" (Comm.)
ADDR: P.O. Box 219, Oranjestad.
STATION: PJA-10 1325kHz 1kW.
HOME SCE. in Dutch, English, Spanish: 10.00-04.00.
ANN: "You are tuned to Station PJA-10, The Voice of Aruba, the Friendly Voice of Aruba for the Antilles" — **INT-SIG:** 4 note pipe organ, producing the Big Ben sound — **V.** by QSL-card or letter.

BONAIRE

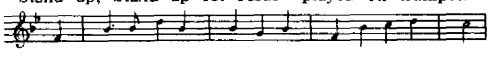
TRANS WORLD RADIO (Culture, Educational, Religious)
ADDR: Trans World Radio, Bonaire. Te: 8800. Cable: Votan. **L.P:** Pres: Dr. P. E. Freed. Dir. Gen: Dr. R. Freed. Field Dir: W. P. Mial. Prgr. Mrgr: N. Olsen. Dir. Tec: R. Kennedy, R. E. Schultz.
STATIONS: 800kHz 375m 500kW.
Short waves: One tr. 50kW, one tr. 260kW. (G.C 68. 17W/12.09N.)

kHz	m	kHz	m	kHz	m	kHz	m
6110	49.10	9695	30.94	11800	25.42	15295	19.62
6195	48.43	9730	30.83	11820	25.38	15305	19.60
9605	31.23	11775	25.48	15255	19.66	15345	19.55

Schedule and freq's subject to change.
N: English: 11.00, 12.28, 04.00; Spanish: 09.25, 22.30, 04.05, 04.35.
Short Wave Schedule: I = So. America; II = No. America; III = Ce. America; IV = East & Far East; V = Europe.
D.PRGR's: On 800kHz: 08.00-09.00 **Portuguese**; 09.00-11.00 **Spanish**; 11.00-12.40 (Sun 15.00) **English**; 21.45-22.00 (Sun) **Dutch**; 21.45-22.00 (Sat) **Norwegian**; 22.00-22.15 **French**; 22.15-23.00 **Spanish**; 23.00-23.30 **Portuguese**; 01.30-02.00 **Spanish**; 02.00-04.00 (Sun 04.30) **English**; 04.00-05.15 **Spanish.**

Arabic/Armenian		kHz	Portuguese		kHz
04.45-05.15	IV	11800*	01.45-02.15	I	15345†
East European Languages			08.00-09.00	I	6110*
04.30-04.45	IV	11800*	23.00-23.30	I	15305*
English			23.15-23.30	I	15345†
00.30-01.20	IV	11820†			
02.25-03.40	II	11775	**Russian**		
11.00-12.35a	II	11820*	01.00-01.30	I	15345*
French			04.00-04.30	V	11800*
22.00-22.15	I	15295*			
German			**Spanish**		
00.30-01.00	I	15345*	01.30-02.20	I	15345*
09.00-09.25	I	6195*	02.15-02.45	I	15345†
10.00-10.30	I	11820†	09.30-11.00	I	9730*
23.30-23.55	I	15345†	22.15-23.00	I	15305*
Norwegian			23.30-00.20	III	9605*
03.33-03.48b	V	9695*	23.55-00.25	I	15345†

*) 50kW; †) 260kW; a) Sun 15.00; b) Sun only.
ANN: "This is the international sound of the Carribean, Trans World Radio, Bonaire" — **INT-SIG:** "Stand up, Stand up for Jesus" played on trumpet.



V. by QSL-card Rp. preferred. IRC's replied by airmail, all other correspondence by surface mail. Re. in E & Sp. no tapes — **PUB:** Prgr. schedule free — **FI:** Voluntary contributions from individuals, organisations, foundations, churches.

THE VOICE OF BONAIRE (Comm.)
ADDR & L.P: See R. Hoyer.
STATION: PJB2 1385kHz 1kW.
HOME SCE: W 11.30-18.30, 22.30-02.30; Sun 14.30-17.30, 22.30-02.30.

ST. MAARTEN

THE VOICE OF SINT MAARTEN (Comm, Religious)
ADDR: P.O. Box 175, St. Maarten. Te: 2373 — **L.P:** Gen. Mgr: R. A. Mayer.
STATION: PJD2 1595kHz 231.7m 10kW.
HOME SCE. in English, French & Dutch: 09.00-02.00.
ANN: "This is the Voice of Sint Maarten, R. Station PJD-2 1295kHz, the Gospel Voice of the Eastern Caribbean, Proclaiming Jesus Deliverance to you and yours, from the Islands of St. Maarten, NA, the beach island of the Carribean" — **V.** by QSL-card.

NICARAGUA

L.T: GMT — 6 h — **Pr.L:** Spanish — **E.C:** a/c 60 (main cities: yes).

JEFATURA DEL RADIO NACIONAL
STATIONS: All st's comm. exc. 6) (Gov), 46) (Cultural), 13) (Rel).

Medium Waves: Call YN---. ° = shortwave.

Call	kHz	kW	Name, location & h of tr.
1) OW	540	3	R. Corporación, Managua
2) G	555	1	R. Tic Tac, Chinandega
3) RR	570	10	R. Regalos, Managua
4) RD	590	10	R. Quinientosnoventa, Managua
5) CRO	605	0.5	R. Minerva, Masaya
6) MN	°620	40	R. Dif. Nacional, Managua: 11.00-06.00
7) WW	650	1	R. Esport, Granada
8) D	675	15	Union Radio, Managua
9) SC	700	10	R. Centauro, Managua
5) BB	720	0.5	Baby Radio, Managua
2) S	725	1	R. Titania, Chinandega
10) X	750	50	R. Equis, Managua
11) W2/4	780	1	R. Mundial, Matagalpa
12) O	800	10	R. Ivania, Manague
13) OL	825	15	R. Ondas de Luz, Managua
14) MG	840	0.5	R. Pinares, Ocotal
15) AV	850	10	R. Continental, Managua
11) W	875	1	R. Mundial, León
16) OX	885	10	R. Libertad, Managua
17) WS	900	10	R. Alma Nica, Managua
11) W	°930	10	R. Mundial, Managua
5) LM	945	0.5	R. Monumental, Boaco
18) LU	965	5	R. Managua, Managua
5) CR	980	0.5	R. Mongalo, Rivas
19) T	1000	10	R. Mil, Managua
20) VOZ	1015	3	R. Reloj, Managua
11) W3	1025	1	R. Mundial, Esteli
21) CW	1035	10	R. Occidental, Chinandega
22) LL	1050	2	R. Masaya, Masaya
23) TV	1070	0.5	R. Centro, Granada
24) P	1080	5	R. Circuito, Managua
22) AE	1090	1	R. Musun, Matagalpa
25) Q	1110	3	La Voz de la Victoria, Managua
24) P	1115	1	R. Circuito, León
26) RC	1130	10	R. Católica de Nicaragua Managua
27) BC	1150	5	R. Ondas Segovia, Esteli
28) UW	1170	0.5	R. Dario, León
5) C	1200	0.5	R. Capital, Managua
27) BB	1210	0.5	R. 15 de Septiembre, Esteli
5) OP	1220	0.5	R. Cultural Carazo, Jinotepe
21) CS	1230	3	R. Central, Chinandega
15) SV	1240	1	R. El Mundo, Managua
29) ABC	1260	1	R. Gueguense, Managua
30) WX	1270	2.5	R. Atenas, León
31) RA	1285	3	La Voz de Chinandega, Chinandega
24) P	1310	2	R. Circuito, Managua
32) DM	1340	0.5	Ondas Sonoras, Managua
33) RM	1350	2	R. Alma Latina, Esteli
34) GF	1360	0.25	R. Ondas del Sur, Jinotepe
10) X	1400	1	R. Equis, Managua
25) MS	1410	1	Ondas Populares, León
35) AJ	1430	10	R. Voz de América, Managua
36) DN	1450	1	R. Vanguardia, Managua
37) TJ	1460	0.5	R. Ecos de las Brumas, Jinotega
2) AG	1475	2	R. Cosiguina, Chinandega
38) PT	1500	1.5	R. Tierra Pinolera, Managua
39) CZ	1515	1	R. Progreso, Leon
40) PR	1560	0.5	R. Existos, Managua
41) E	1580	2.8	R. Uno, Managua
42) AW	1590	0.75	R. Colimas, Jinotega

Short Waves: Call YN--.

Call	kHz	m	kW	Name and h of tr.
6) N	5935	50.55	100	R. Dif. Nacional, Managua: 23.00-04.00
43) RG	5955	50.38	0.5	R. Zelaya, Bluefields: 11.00-04.00
11) WA	5965	50.29	0.5	R. Mundial, Managua: 11.00-05.00
44) HC	6100	49.18	0.4	R. Hernandéz de Cordobas, Ocotal: 11.00-03.00
45) CA	6120	49.02	1	R. Atlantico, Bluefields: 11.00-04.00
46) JM	6200	48.39	1	R. Norte, Somoto
37) TZ	9550	31.41	1	R. Jinotega, Jinotega: 11.00-04.00
47) TD	9580	31.32	0.5	R. Mar, Pto. Cabezas
6) N	11875	25.26	100	R. Dif. Nacional, Managua: 13.00-06.00

Addresses & other information:
St's 9), 16), 19), 20), 35), 41) located in **Managua.** Other information not available.

1) Apt. 2442, Managua.
2) Chinandega. L.P: Dir: M. A. González.
3) Managua. L.P: Dir. Gen: O. Bermudez P.
4) Managua. L.P: Dir: F. Arana V.
5) Managua. L.P: Dir. Gen: A. Obregón P.
6) Apt. 1731, Managua. Te: 27175. L.P: Dir. Gen: S. Cisneros L. Dir. Tec: B. Guerra L. Dir. Prgr: T. Sanchez D. D.Prgr: N: 12.30, 22.00, 05.30. FM: 97MHz 1 kW. V. by letter. Rec. acc.
7) Granada. L.P: M. Arana V.
8) Apt. 1148, Managua. V. by QSL-card and letter.
10) Apt. 1505, Managua. Te: 2-5404. Cable: Tevenic. L.P: Dir. Gen: R. O. Caño. Dir. Tec: F. Cruz R. Dir. Prgr: M. Sobenes. D.Prgr: N: 11.30, 17.30, 05.00. FM: 94MHz 0.1kW, 96MHz, 0.25kW. V. by QSL-czrd. Rec. acc.
11) 5a Av. No. 703, Managua. Te: 23851. L.P: Dir. Gen: Prof. J. C. Sandoval. Gen. Mgr: M. Aranav. Dir. Tec: M. Srana.
12) Managua. L.P: Dir. Gen: M. Riguero.
13) Apt. 607, Managua. L.P: Dir: F. M. Doña. D.Prgr: English: 03.00-04.00. N: 18.00, 01.00, 04.00. V. by QSL-card or letter.
14) Ocotal. L.P: Dir: F. C. Sandoval.
15) Managua. L.P: Dir: M. Valle Q.
17) Managua. L.P: Dir: L. V. de Sáenz.
18) Managua. L.P: Dir: L. Felipe H.
21) Chinandega. L.P: Dir: J. E. Castillo.
22) Masaya. L.P: Dir: L. J. Arauz B.
23) Granada. L.P: Dir: G. Mungia A.
24) Managua (1115/León; 1080/Chinandega).
25) Managua. L.P: Dir: A. Solis H.
26) Apt. 1130, Managua. V. by letter.
27) Esteli. L.P: Dir: R. Barrantes C.
28) Leon. L.P: Dir: J. Toruño C.
29) Managua. L.P: Dir: S. Calderon A.
30) Ca. Santiago Argüello, Leon. L.P: Dir: N. Icaza.
31) Chinandega. L.P: Dir: A. Rivas C.
32) Managua. L.P: Dir: M. Rodriguez C.
33) Esteli. L.P: Dir: R. Rodriguez G.
34) Jinotepe. L.P: Dir: R. Guardian and H. Hérnandez.
36) Managua. L.P: Dir: L. F. Hidalgo H.
37) Jinotega. L.P: Dir: T. Morales H.
38) Managua. L.P: Dir: L. & S. Cardenal.
39) Leon. L.P: Dir: R. C. Zapata.
40) Managua. L.P: Dir: A. Castro W.
43) Apt. 72, Bluefields. L.P: Dir: R. Austin G. D.Prgr. English: 11.40-12.04. V. by QSL-card. Rp.
44) Ocotal. L.P: Dir: N. A. Madrigal.
45) Bluefields. L.P: Dir: S. Sandoval de Mena.
46) Somoto. L.P: J. J. Molina.
47) Pto. Cabezas. L.P: Dir: R. Perez U.

PANAMA

L.T: GMT — 5 h — Pr.L: Spanish — EC: a/c 60 (yes).

DIRECCION TECNICA DE RADIOCOMUNICACIONES

ADDR: Apt. 3422, Panamá 1. Cable: Dirgentel Radio — L.P: Ing: A. Lamparero.

ASOCIACION PANAMENA DE RADIODIFUSION

ADDR: Apt. 7387, Panamá.

STATIONS: C = Circuito. * = currently inactive.
Medium Waves: Call: HO---. ° = shortwaves.

Call	kHz	kW	Name, location and h of tr.
1) U23	540	0.25	R. Mia, Penonomé
2) N31	550	1	R. Aeropuerto, Panamá
3) H2	560	0.25	Circuito RPC, Colón
4) O23	575	0.25	R. Capital, Panamá
3) H3	590	1	Circuito RPC, Chitre
3) HM	°610	5	Circuito RPC ,Panamá
5) K	640	0.25	Cadena Panameña de Radiodif, Colón
6) S22	650	10	R. Mia, Panamá: 10.00-04.30
3) H4	660	1	Circuito RPC, David
7) LY	670	1	R. Hogar, Panamá: 11.00-05.00
8) F32	680	0.5	R. Centenario, Puerto Armuelles
9) A	700	1	R. Panamericana, Panamá
10) B52	710	1	Ondas del Caribe, Bocas del Toro
11) B50	720	1	R. Republica, Chitre
12) HP5C	°730	1	R. Miramar, Panamá: 10.30-03.00
13) XO	760	5	La Voz del Istmo, Panamá
14) SCN	790	5	Southern Command Netw, Canal Zone
3) F33	810	1	Circuito RPC, Bocas del Toro
15) L60	820	1	R. Villareal, Santiago
16) G	830	0.25	Estacion de la Communidad, Panamá
2) N32	840	10	R. Aeropuerto, Panamá
17) L55	860	1	R. Reforma, Chitré
18) HO	870	1	R. Musical, Panamá
11) B51	880	0.25	Cadena Universal, Panamá
19) R34	890	1	Ondas del Pacifico, Panamá
20) HA	900	0.5	La Voz del Pueblo, Panamá
6) S56	920	1	R. Mia, Panamá
21) X	940	1	R.TV-2, Panamá
22) B33	950	1	R. Cultura, Concepción
3) F	°965	3	Circuito RPC, Panamá
23) S97	970	1	Ondas Centrales, Santiago
24) R59	990	1	R. Impacto, Panamá: 11.00-05.00
25) U44	1015	1	R. Reloj, Panamá
3) F2	1020	0.25	Circuito RPC, Panamá
26) U	°1025	1	La Voz del Baru, David
27) S21	1035	1	R. Unión, Panamá
28) J2	1045	1	Ondas del Canjagua, Las Tablas: 24 h
29) HPM21	1060	1	La Voz de Panamá, Panamá
30) J23	1080	1	Radio La Tribuna, Panamá
31) R58	1100	1	R. Mil Cien, Panamá
6) M21	1120	1	R. Mia, Panamá
3) F47	1125	1	Circuito RPC, Panamá
32) J	1130	1	R. Provincias, Chitré
11) B49	1140	1	Cadena Universal, Panamá
33) S25	1150	0.25	R. Mia de Colón, Colón
34) NZ	1170	0.25	Ondas Istemeñas, Panamá
35) OC	1180	1	Ondas Chiricanas, Panamá
36) L47	1190	1	R. Libertaa, Panamá
37) E91	1210	4	R. El Mundo, Panamá
38) K36	1220	1	R. Poderosa, Aguadulce: 11.00-05.00
39) M56	1240	1	R. Reloj, David
40) Q	1250	0.25	R. Nacional, Panamá
30) J22	1270	0.5	R. La Tribuna, Panamá
41) U80	1280	0.25	La Voz del Vigia, Aguadulce
6) S23	1290	1	R. Mia, Panamá
42) K3	1310	0.25	La Onda de la Alegria, Colón
43) M92	1330	1	Canal 13, Panamá
44) G53	1360	0.25	La Voz de los Cumbres, Chilibre: 12.00-24.00
45) O38	1370	1	R. Colosal, David
29) J60	1380	0.25	La Voz de Panamá, Panamá
42) L	1390	1	R. Atlantico, Colón
46) RS	1410	0.5	R. Selecta, Panamá
14) SCN	1420	1	Southern Command Netw, Canal Zone
5) C	1440	0.25	Cadena Panameña de Radiodif, Colón
47) D42	1460	0.25	La Voz de Almirante, Bocas del Toro: 13.00-04.00
48) OH	1470	1	R. Libre, Panamá
49) R43	1490	0.25	R. Exito, Chorrera
50) N	1500	1	La Voz de la Victor, Colón
51) A95	1505	1	Cabina 95, Panamá
52) R20	1520	1	R. Coclé, Penonomé
53) E28	1549	1	R. TNT, Panamá: 11.00-05.00
54) E35	1570	0.1	R. Once, Colón

Short Waves:

Call	kHz	m	kW	Name and h of tr.
1) HOM50	5995	50.04	1	C.RPC, Panamá: 11.00-04.00
13) HP5C	*6030	49.75		R. Miramar, Panamá
2) HOU31	6045	49.63	1	La Voz del Baru, David: 11.00-05.00
1) HOF31	9685	30.98	1	C.RPC, Panamá: 12.00-05.00

Addresses & other information:
St's 4), 19), 21), 27), 30), 36), 43) located in **Panamá**. Other information not available.

2) Apt. 4824, Panamá.
3) Apt. 1795, Panamá. Te: 25-0160. Cable: Erepece. L.P: Dir. Gen: M. Barral. St. Mgr: J. de la Guardia. Dir. Tec: L. O'Meally. D.Prgr: N: 11.30, 17.30, 22.30, 04.30. V. by letter. Rec. acc. (HOF/HOHM Panamá, HOFR/HOH2 Colón, HOH3, Chitre, HOH4 David, HOF33 Bocas del Toro). V. by letter.
5) Apt. 33, Colón.
6) Apt. 5117, Panamá.
7) Apt. 9A-102, Panamá. Te: 231132. L.P: Dir. Gen: L. Medrano S.
FM: 94.1MHz. V. by letter.
8) Apt. 3, Puerto Armuelles.
9) Apt. 1121, Panamá.
12) Apt. 4402, Panamá 7. Te: 23-0239. L.P: Dir. Gen: A. A. Boyd. Dir. Tec: C. Pérez.
13) Apt. 3269, Panamá. V. by QSL-card.
14) (AFRTS), Ft. Clayton, Canal Zone.
16) Apt. 1121, Panamá.
17) Apt. 1201, Chitré. V. by QSL-card and letter.
18) Apt. 355, Panamá.

20) Apt. 1045, Panamá.
22) Apt. 249, Concepción.
24) Apt. 1373, Panamá 1. Te: 25-0019. L.P: Dir. Gen: A. Quiros G. Dir. Tec: W. Sudki. V. by letter. Rec. acc. Rp.
25) Apt. 5124, Panamá.
26) Apt. 160, David.
28) Apt. 10, Las Tablas. V. by letter.
29) Apt. 867, Panamá. V. by letter.
31) Apt. 1100, Panamá.
32) Apt. 1174, Chitré.
34) Apt. 3237, Panamá.
35) Apt. 172, Panamá.
37) Apt. 1566, Panamá.
38) Apt. 58, Aguadulce, Chocle. L.P: Dir. Gen: R. Chiari. Dir. Tec: J. A. Rodriguez. D.Prgr: N: 11.00, 17.00, 23.00. V. by letter. Rec. acc.
39) Apt. 328, David.
40) Apt. 552, Panamá.
41) Aguadulce.
42) Apt. 44, Colón. V. by QSL-card.
44) Chilibre. L.P: Dir. Gen: A. A. Roach. Dir. Tec: C. Perez. V. by letter. Rec. acc.
46) Apt. 4369, Panamá.
47) Ca. 6a y Av. N. Almirante, Bocas del Toro. L.P: Dir's: N. O. Dosman, A. Bodkin. V. by QSL-card. Rec. acc. Rp.
48) Apt. 4545, Panamá.
50) Apt. 33, Colón.
51) Apt. 7671, Panamá 9. L.P: Dir: C. E. Garcia. M. Dir. Tec: V. Vergera. V. by letter. Rec. acc.
53) Apt. 3115, Panamá 3. L.P: Dir. Gen: C. E. Fábrega. Dir. Tec: D. Cardoze.

PUERTO RICO

L.T: GMT — 4 h — Pr.L: Spanish, English.

BROADCASTERS ASSOCIATION OF PUERTO RICO
ADDR: P.O.Q, Hato Rey.

STATIONS: All st's comm. exc. 13), 27) —*) also FM.
D.Prgr: Generally 10.00-04.00.

	Call	kHz	kW		Call	kHz	kW
1)	WPAB	550*	5/1	16)	WAEO	1170	0.25
2)	WKAQ	580*	5	19)	WNIK	1230*	1/0.25
3)	WAEL	600*	1	20)	WISO	1260	1
4)	WKYN	630*	1	21)	WCMN	1280*	5/1
5)	WAPA	680	10	22)	WTIL	1300	1
6)	WKJB	710*	1	23)	WUNO	1320	5/1
7)	WIAC	740*	10	24)	WGRF	1340	0.25
8)	WORA	760*	5	25)	WIVW	1370	1
9)	WKVM	810	25	26)	WVOZ	1400	1
10)	WABA	850*	0.5	27)	WEUC	1420	1
11)	WHOA	870	5	28)	WNEL	1430	5/0.5
12)	WPRP	910	5/0.5	29)	WFBA	1460	0.5
13)	WIPR	940*	10	30)	WMDD	1480	5
14)	WPRA	990	1	31)	WRAI	1520	0.25
15)	WMIA	1070	0.5	32)	WKFE	1550	0.25
16)	WLEO	1080	0.25	33)	WRSJ	1560	5/0.25
17)	WVJP	1110	0.25	34)	WXRF	1590	1
18)	WITA	1140*	0.5				

1) **Portorican American Broadc. Co**, P.O. Box 786, Ponce 00731. L.P: Pres. & Gen. Mgr: A. Gimenez-Aguayo. Dir. Tec: A. Gimenez Jr. N: Every half h. V. by letter.
2) **El Mundo Broadc. Corp**, G.P.O. Box 4668, San Juan 00936. L.P: Gen. Mgr: V. Lamas. Jr. Dir. Tec: J. Arzuaga. D.Prgr: 09.30-04.00. V. by letter. Recordings accepted.
3) **WAEL Inc**, Box 756, Mayaguez 00708. L.P: Pres. & Gen. Mgr: M. Pirallo. Dir. Prgrs: L. R. Venegas. D.Prgr: 10.00-03.00. N: Every half h. V. by QSL-card. Recordings accepted.
4) **Quality Broadc. Corp**,Box 9986, San Juan 00908. L.P: Pres: A. R. de Arellno Jr. St. Mgr: A. Merrill.
5) **Hearst Radio Inc**, Box 4563, San Juan 09905. L.P: Vice Pres. & Gen. Mgr: Ray Owen. Dir. Tec: R. Taylor. D.Prgr: 24 h. V. by QSL-card or letter. Recordings accepted.
6) **Emisora WKJB**, Box 1293, Mayaguez 00709. L.P: Pres: A. Bechara Jr. Gen. Mgr: I. Mendez Lopez.
7) **Broadc. Inc**, Box 4504, San Juan.
8) **R. Americas Corp**, Box 43, Mayaguez 00708. L.P: Mgr: G. A. Tyron. Dir. Tec: H. Nicolas. V. by letter.
9) **American Colonial Broadc. Corp**, Box 4189, San Juan. L.P: Pres. & Gen. Mgr: R. P. Perry. D.Prgr: 09.30-05.00.
10) **R. WABA**, Box 188, Aguadilla 00603. L.P: Gen. Mgr: F. Bonnet. D.Prgr: 09.45-04.00 (Sun 11.00-02.00).
11) **Continental Broadc. Corp**, Box V, Hato Rey 00919. L.P: Pres. & Gen. Mgr: C. Mendez. D.Prgr: 24 h.
12) **Voice of Puerto Rico**, Box 430, Ponce 00731. L.P: Pres. & Gen. Mgr: A. R. de Arellano. D.Prgr: 09.45-03.15.
13) **Dept. of Education of P.R**, P.O. Box 909, Hato Rey 00919. ANN: "These are st's WIPR and WIPR-FM in San Juan, Puerto Rico." V. by QSL-card.
14) **WPRA Inc**, Box 869, Mayaguez 11708. L.P: Pres. & Gen. Mgr: A. Camara.
15) **Abacoa R. Corp**, Box 1055, Arecibo 00613. L.P: Gen. & Comm. Mgr: E. Rodriguez-Velez.
16) **Ponce Broadc. Corp**, Box 1186, Cayey. L.P: Gen. Mgr: Ch. Cordero. Dir. Tec: J. Conesa. D.Prgr: W 09.00-03.00 (Sat 05.00), Sun 11.00-03.00 (WLEO: 24 h).
17) **Borinquen Broadc. Co**, Box 207, Caguas 00626. L.P: Gen. Mgr: H. Pereira. Dir. Tec: P. L. Jimenez. D. Prgr: 24 h. N: 10.00, 16.00, 21.00. V. by letter. Recordings accepted.
18) **Electronics Enterprises Inc**, Box 2692, San Juan 00903. L.P: Pres. & Gen. Mgr: A. A. Valdivieso.
19) **Arecibo R. Corp**, Box 908, Arecibo 00903. L.P: Gen. Mgr: D. Ortiz. V. by letter.
20) **South Puerto Rico Broadc. Corp**, Box 2023, Ponce. Te: 842-4124. L.P: Gen. & Comm. Mgr: L. E. Freyre. Dir. Tec: M. Delgado. N: 10.30, 16.30, 21.30, 22.45, 02.00. V. by letter. Rp. Recordings accepted.
21) **Carribean Broadc. Corp**, Box 436, Arecibo 00612. L.P: Gen. & Comm. Mgr: N. Barreto. D.Prgr: 10.00-03.00.
22) **Mayaguez R. Corp**, Box 1360, Mayaguez 00708. L.P: Pres. & Gen. Mgr: G. Mamery.
23) **San Juan Broadc. Corp**, Box Q, Hato Rey. 00919. L.P: Gen. Mgr: M. A. Escudero.
24) **Jaicoa Broadc. Co**, Box 766, Aguadilla 00603. L.P: Gen. Mgr: M. A. del Valle. D.Prgr: 24 h.
25) **WIVV Missionary Radio Station**, Box 1904, Hato Rey. Te: 60919. L.P: Dir: D. Lutterell. Dir. Tec: W. T. Forrester. Dir. Prgr: Ruth Lutterell. D.Prgr: 09.30-02.30. N. in English: 11.00, 17.00, 23.00. Mbg: 19.00-21.00. V. by letter. Pub: WIVV Radio News.
26) **International Broadc. Corpo**, Suite 403, Carolina. L.P: St. Mgr: P. Roman-Collazo. Dir. Tec: J. J. Arzuaga Jr. D.Prgr: 24 h. N: Every half h. V. by letter. Recordings accepted.
27) **Catholic University of Puerto Rico**, Service Assn. Campus, Ponce 00731. Te: 8422031. L.P: Mgr: M. A. Pancorbo. Dir. Tec: M. A. Ferrer. D.Prgr: 10.00-03.00. N: On the h. V. by letter. Recordings accepted.
28) **R. Tiempo**, Box 5369, San Juan 00906. L.P: Pres. & Gen. Mgr: Quiniones Jr.
29) **Radio Pepino**, Box 127, San Sebastian. Te: 896-1005. L.P: Dir. Gen. & Tec. Dir: R. Vega. Asst. Dir: M. T. Lebrón. D.Prgr: 24 h. V by letter. Recordings accepted.
30) **Pan Caribbean Broadc. Corp**, Box 948, Fajardo 00648. L.P: Mgr: J.L.Torregrosa.Dir. Tec: C. SotoP. D.Prgr: 24 h. N: Every half h. V. by QSL-card. Recordings accepted.
31) **R. Aeropuerto**, Box 1262, Hato Rey 00919. L.P: Pres. & Gen. Mgr: C. Pirallo Lopez. D.Prgr: 10.00-05.00.
32) **R. Emisora WKFE**, Box 324, Yuaco 00768. D.Prgr: 10.00-02.00.
33) **R. San Juan**, P.O. Box 5627, San Juan 00905. L.P: Gen. Mgr: M. S. Martinez. D.Prgr: 09.30-05.00.
34) **Guayama Broadc. Co**, Box 615, Guayama 00655. L.P: Pres: R. Fuster Jr. D.Prgr: 10.00-02.00. V. by QSL-card.

TRINIDAD & TOBAGO

L.T: GMT — 4 h — Pr.L: English — E.C: a/c 60 (yes).

TRINIDAD BROADCASTING CO. (Comm.)
ADDR: Broadc. House, 11B Maraval Rd, Port-of-Spain. Te: 21151. Cable: Broadcast — L.P: St. Mgr: P. E. M. Hesketh. Dir. Tec: E. R. McDowell. Dir. Prgr: Mrs. J. Gonsalves. Sales Mgr: S. Ghany.
STATIONS: 730kHz 410m 20kW — FM: 95.1MHz 1kW.
HOME SCE. in English: D 10.00-03.15. N: 10.00, 10.45, 11.00*, 12.00, 13.00*, 14.00, 15.00, 16.00*, 16.30, 17.00, 18.00*, 19.00, 20.00*, 21.00, 22.00, 23.00, 23.45, 01.45, 02.00*, 02.15, 03.00* — * = incl. Wrp.
ANN: "This is R. Trinidad, first with the news" — V. by letter. Rec. acc. — ALF:$2.40.

RADIO GUARDIAN (Comm.)
ADDR: 17 Abercromby St, Port-of-Spain. Te: 32618. Cable: Voice L.P: Gen. Mgr: P. A. Pitts. Dir. Tec: F. Thompson. Dir. Prgr: L. de Leon.
STATION: VPL6 610kHz 491.8m 10kW — FM: 98.9MHz 0.25kW.
HOME SCE. in English: 09.50-03.07. N: on the h (BBC/Ws 12.00, 18.00) — Gov.Prgr: 00.00 — Wrp: On the half h.
ANN: "This is R. Guardian. The Voice of Trinidad & Tobago" — INT-SIG: At sign-on: The tune "Yellow Bird, Choucoun Destiny" played on Guitar & Xylophone — V. by letter. Rp.

TURK & CAICOS ISLANDS (British)

L.T: GMT — 5 h — Pr.L: English.

RADIO STATION VS18
ADDR: Cable and Wireless (West Indies) Ltd, Mercury House, Grand Turk. Te. 2. Cable: Cablewire — L.P: St. Mgr: Peter A. Wolfe.
STATION: VS18 4560kHz 65.79m 0.2kW.

D.PRGR's: N. in English: 18.30 (10 to 20 mins) — ANN: "R. St. VS18 owned and operated by Cable and Wireless (W.I.) Limited" — V. by letter. Rp — ALF: £0 10-0.

VIRGIN ISLANDS (American)

L.T: GMT — 4 h — Pr.L: English.

RADIO AMERICAN WEST INDIES INC. (Comm.)
ADDR: P.O. Box 310, Christiansted, St. Croix. Te: 733-0390 — L.P: Dir. Gen: Mrs. H. M. Higdon. St. Mgr: Mrs. M. P. Lang. Dir. Tec: R. E. Higdon.
STATION: WSTX 970kHz 5kW — FM: 99.5MHz.
D.PRGR: 24 h — N. English: On the h (Headlines on the half h) Wrp: 17.15 — Spanish: 14.00-16.00 — ANN: "This is WIVI, 970 on your dial, located at Fort Louise Augusta, Christiansted, St. Croix, US Virgin Islands".

RADIO STATION WSTA (Comm.)
ADDR: P.O. Box 489, St. Thomas, US Virgin Islands 00801. Te: 774-1340. Cable: WSTA — L.P: Gen. Mgr: A. C. Ottley. Chief Eng: G. Neatherly.
STATION: 1340kHz 0.25kW — HOME SCE: 10.00-04.00. N: Every h on the h at 11.00-03.00; also at 21.45, 03.55 — ANN: "This is WSTA, 1340 on your dial in St. Thomas, Virgin Islands" — V. by letter. Recordings accepted — F.PL: 1kW.

ISLAND TELERADIO SERVICE INC. (Comm.)
ADDR: P.O. Box 1947, St. Thomas, US Virgin Island 0081. Te: 774-10300. Cable: WBNB — L.P: Pres: R. Moss, Secr. Treasurer: R. E. Noble.
STATION: WBNB 1000kHz 300.0m 1kW.
HOME SCE. in English: W 10.00-04.00, Sun 12.00-03.00. N: on the h — ANN: "WBNB, Radio Ten, St. Thomas" — V. by letter Rp. — EC: a/c 60.

VIRGIN ISLANDS (British)

L.T: GMT — 4 h — Pr.L: English.

VIRGIN ISLANDS BROADC. Ltd. (Comm.)
ADDR: Road Town, Tortola — L.P: St. Mgr: L. N. Mills.
STATION: ZBV1 780kHz 384.6m 10kW — HOME SCE. in English: 10.00 (Sun 12.30)-01.00 — ANN: "This is R. st ZBVI, the Virgin Isl. Broadc." — V. by letter.

WINDWARD ISLANDS

L.T: GMT — 4 h — Pr.L: English.

WINDWARD ISLANDS BROADCASTING SERVICE (Gov.)
ADDR: St. George's, Grenada, W.I. Te: 4251. Cable: Broadcasts — HOME SCE: a) Grenada, b) Dominica, c) St. Vincent, d (Lucia, 3) Carriacou.

St. George's	a) 535kHz	0.5kW
Castries	d) 1565kHz	0.25kW
Roseau	b) 695kHz	0.5kW
Chateaubelair	c) 1535kHz	0.1kW
Kingstown	c) 705kHz	0.5kW
Carriacou	e) 1045kHz	0.1kW

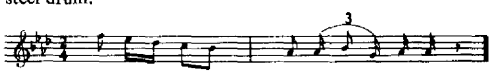
All mw's: 15.45-02.15.
Short Waves (G.C: 61.46W/12.01N):

3280kHz	91.40m	5kW:	21.35-02.15
5015kHz	59.82m	5kW:	15.45-22.45
9550kHz	31.41m	10kW:	15.30-20.00

N. in English (W only): 16.00*, 16.40, 16.55, 17.15, 18.00*, 20.00*, 20.20, 20.30, 22.30, 23.00*, 23.45, 02.00 — *=BBC.
OVERSEAS SERVICE (5/10 or 100kW):
I=Jamaica; II=British Isles; A=Nov-Feb; B=March-Oct.

kHz	m	Period	Times	Area
11700	25.64	A	20.45 (21.30)-22.45	II
11970	25.06	A + B	23.25-02.15	I
15110	19.85	A	19.45-20.45 (21.30)	II
		B	21.30-22.45	II
15180	19.76	A + B	18.30-19.50 (irr)	II
21690	13.83	B	19.45-21.30	II

ANN: "This is the Windward Islands Broadc. Sce."
INT-SIG: A typical calypso phrase played on the "ping-pong", and indigenous instrument made from the top of a steel drum.



V. by QSL-card. Re: Below 9MHz not wanted. Above 9MHz wanted — F.PL: Castries 660kHz 10kW, Roseau 550kHz 10kW, St. George's 540kHz 10kW.

RADIO CARIBBEAN (Comm.)
ADDR: P.O. Box 121, Castries, St. Lucia, W.I. Te: 2637. Cable: Caradio — L.P: Dir: B. F. Bonsor. Mgr: A. F. K. Joynes.
STATION: 840kHz 357.1m 10kW.
HOME SCE. in English & French: W 10.00-18.30, 20.00-02.30; Sun 11.00-18.30, 20.00-02.30.
English: 12.30-14.30 (W), 20.00-22.00 (D). French: W 10.00-12.30, 14.30-18.30, 22.00-02.30, Sun 11.00-18.30, 22.00-02.30.
N: W 10.30, 11.00, 11.45, 12.15, 17.00, 23.00, 01.00. Sun Sun 11.30, 17.00, 23.00, 01.00. Request Prgr: French: 23.30, English: 20.45.
ANN: E: "This is R. Caribbean International, St. Lucia, broadc. on a freq. of 840kHz in the mw band". F: "Ici R. Caraibes International, Ste. Lucie, émettant sur 840kHz" — V. by letter. Rp.

SOUTH AMERICA

ARGENTINA

L.T: April-Oct: GMT — 4 h; Oct-March: GMT — 3 h — Pr.L: Spanish — E.C: a/c 50 + dc (yes).

SECRETARIA COMUNICACIONES
ADDR: Sarmiento 151, Buenos Aires. Te: 31-5031. Cable: Gentel-Baires. L.P: Secr. Gen: J. A. Teglia.

R. NACIONAL (Servicio Oficial de Radiodifusion-Gov.)
ADDR: Ayacucho 1556, Buenos Aires. L.P: Dir: J. B. Olivieri.
HOME SCE: Short Waves:

Call	kHz	m	kW	Name and h of tr.
LRA31	6060	49.50	50	Buenos Aires: 11.00-04.00
LRA34	6180	48.54	10	Mendoza: 14.00-04.00
LRA32	9690	30.96	100	Buenos Aires: 22.00-24.00
LRA33	15345	19.55	100	Buenos Aires: 11.00-18.30

Medium Waves: °=Short Wave

	Call	kHz	kW	Name	h of tr.
1)	LRA14	540	25/5	Santa Fé	12.00-04.00
2)	LRA13	560	10/3	Bahia Blanca	13.00-19.00, 22.00-04.00
3)	LRA12	620	5	Santo Tomé	12.00-17.00, 20.00-04.00
4)	LRA10	620	5	Ushuaia	14.00-18.00, 22.00-03.00
5)	LRA9	690	5	Esquel	14.00-19.00, 22.00-04.00
6)	LRA4	690	10/5	Salta	14.00-04.00
7)	LRA3	730	20/3	Santa Rosa	14.00-04.00
8)	LRA7	750	50	Córdoba	12.00-04.00
9)	LRA8	780	5	Formosa	14.00-19.00, 23.00-04.00
10)	LRA17	830	25/5	Zapala	15.00-18.00, 22.00-02.00
11)	LRA	°870	100	Buenos Aires	12.00-05.00
12)	LRA11	900	5	Comodoro Rivadavia	23.00-04.00
13)	LRA6	°960	20/5	Mendoza	13.00-04.00
14)	LRA15	1030	25/5	Tucumán	14.00-04.00
15)	LRA16	1250	25/5	La Quiaca	14.00-02.00
16)	LRA5	1310	5	Rosario	12.00-05.00

D.Prgr: N: 12.00, 16.00, 24.00 — V. by QSL-card.
Addresses:
1) Edif. Distrito 5, Santa Fé.
2) Moreno 36, Bahia Blanca.
3) Chacra 46, La Tablada, Santo Tomé, Corrientes.
4) Galeria Albatros, Loc. 1, Ushuaia, Tierra del Fuego.
5) Marcelo T. de Alvear, Esquel, Chubut.
6) Mitre 294, Salta.
7) Edif. Distrito 25, Santa Rosa, La Pampa.
8) Santa Rosa 241, Córdoba.
9) 25 de Mayo 735, Formosa.
10) Abel Caneton y Av. San Martin, Zalapa, Neuquén.
11) Ayacucho 1556, Capital Federal.
12) San Martin y Moreno, Comodoro Rivadavia, Chubut.
13) Emilio Civit 460, Mendoza.
14) Km 8, Camino del Peru, Depto. Tafi, Tucumán.
15) La Quiaca, Jujay.
16) Córdoba 1331, Rosario.

INTERNATIONAL SERVICE
Addr: Radiodif. Argentina al Exterior (RAE), Sarmiento 151, Buenos Aires — L.P: Head of Sce: A. H. Christiani.
STATIONS: G.C: LRA (Gral. Pacheco): 58.22W/34.36S — LRY (Hurlingham): 58.39W/34.35S. *=R. Belgrano tr's.

Call	kHz	m	kW	Beams	
LRY1	*6090	49.26	40	nd	16.00-22.00, 03.00-08.00
LRA32	9690	30.96	100	320°	00.00-07.00, 09.00-10.00
LRA35	11710	25.62	100	35°	19.00-24.00
LRY2	*11780	25.47	7.5	nd	19.00-22.00, 03.00-07.00

SOUTH AMERICA
1: 40 Mill.
KM
0
500
1000
1500
ATLANTIC OCEAN
PACIFIC OCEAN
BRAZIL
ARGENTINA
CHILE
PERU
BOLIVIA
PARAGUAY
URUGUAY
COLOMBIA
VENEZUELA
GUYANA
SURINAM
GUIANA (Fr.)
ECUADOR
PANAMA
Netherlands Antilles
Windward Islands
EQUATOR
TROPIC OF CAPRICORN
Falklands Islands
BARRANQUILLA
CARTAGENA
MARACAIBO
MERIDA
CUCUTA
SAN CRISTOBAL
MEDELLIN
BUCARAMANGA
MANIZALES
PEREIRA
IBAGUE
CALI
NEIVA
ESMERALDAS
IBARRA
QUITO
MANTA
AMBATO
RIOBAMBA
GUAYAQUIL
CUENCA
IQUITOS
LOJA
PIURA
CHICLAYO
TRUJILLO
HUARAS
CERRO DE PASCO
CALLAO
LIMA
HUANCAYO
CUZCO
ICA
PUNO
AREQUIPA
TACNA
ORURO
LA PAZ
COCHABAMBA
SANTA CRUZ
SUCRE
PUERTO CABELLO
CUMANA
CARACAS
BARQUISIMETO
MATURIN
CIUDAD BOLIVAR
PORT OF SPAIN
GEORGETOWN
PARAMARIBO
CAYENNE
BOGOTA
MACAPA
MANAUS
BELEM
PARNAIBA
SAO LUIZ
TERESINA
FORTALEZA
NATAL
RECIFE
MACEIO
ARACAJU
SALVADOR (BAHIA)
PORTO VELHO
RIO BRANCO
MALDONADO
CUIABA
BRASILIA
GOIANIA
UBERLANDIA
UBERABA
BELO HORIZONTE
CAMPINAS
TAUBATE
NITEROI
SAO PAULO
RIO DE JANEIRO
SANTOS
CURITIBA
FLORIANOPOLIS
PORTO ALEGRE
SANTA MARIA
ANTOFAGASTA
LA QUIACA
SALTA
TUCUMAN
FORMOSA
ASUNCION
ENCARNACION
POSADAS
CORIENTES
SANTO TOME
RESISTENCIA
SANTIAGO DEL ESTERO
CATAMARCA
S. JUAN
CORDOBA
CONCORDIA
SALTO
TACUAREMBO
MELO
MONTEVIDEO
COLONIA
BUENOS AIRES
ROSARIO
SANTA FE
SAN LUIS
MENDOZA
VALPARAISO
SANTIAGO
TALCA
SAN RAFAEL
MERCEDES
LA PLATA
AZUL
SANTA ROSA
CONCEPCION
LOS ANGELES
TEMUCO
VALDIVIA
PUERTO MONTT
NEUQUEN
BAHIA BLANCA
MAR DEL PLATA
NECOCHEA
SAN CARLOS DE BARILOCHE
ESQUEL
C. RIVADAVIA
RIO GALLEGOS
STANLEY
PUNTA ARENAS
USHUAIA
75°
60°
45°
30°
15°
0°
90°

Argentina

TO EUROPE/NO. AFRICA/NEAR EAST: 19.00-24.00. 19.00-22.00 on 6090/11710/11780kHz (19.00 Spanish, 20.00 German, 21.00 Italian); 22.00-24.00 on 11710kHz (22.00 French, 23.00 English). **N:** Spanish 19.02, German 20.02, Italian 21.02, French 22.02, English 23.02.
TO NO. CE. & SO. AMERICA: 00.00-03.00 on 9690kHz (00.00 Portuguese, 01.00 Spanish); 03.00-07.00 on 6090/9690/11780 kHz (03.00 English, 04.00 Spanish, 06.00 English) **N:** Portuguese 00.02, Spanish 01.02, 04.02, English 03.02, 06.02.
TO ASIA: Japanese 09.00-10.00 on 9690kHz.
ANN: Sp. "Aqui Argentina". G: "Hier spricht Argentinien". I: "Qui Argentina". F: "Ici l'Argentine". E: "This is Argentina Calling". P: "Aqui Argentina". — V. by QSL-card.

OFFICIAL STATIONS (Gov.)

	Call	kHz	kW	Name and h of tr.
1)	LS1	710	100	R. Municipal, Buenos Aires: 10.00-06.00
2)	LU14	730	5	R. Provincia de Santa Cruz, Rio Gallegos: 12.00-06.00
3)	LT10	1020	10	R. Universal del Litoral, Santa Fé: 10.00-05.00
4)	LT17	1250	5/2	R. Provincia de Misiones, Posadas: 10.00-04.00
5)	LS11	1270	30/5	R. Provincia de Buenos Aires, La Plata: 11.00-07.00
6)	LV17	1360	0.25	Municipal de Córdoba, Córdoba: 11.00-01.30
7)	LV18	1370	0.25	R. Municipal de San Rafael, Mendoza: 14.00-18.00
8)	LR11	1390	5/2.5	R. Universidad Nac. de La Plata, La Plata: 16.00-04.00
9)	LU23	1430	0.25	R. El Turbio, El Turbio: 14.00-20.00
10)	LV19	1470	0.25	R. Municipal de Malargüe, Malargüe: 14.00-18.00, 20.00-24.00
11)	LT21	1520	0.1	R. Municipal de Alvear, Alvear: 12.45-17.00, 19.30-01.00
12)	LT19	1550	0.25	R. Municipal de Santo Tomé, Santo Tomé: 22.00-02.00

1) Arturo Toscanini 1168, Buenos Aires.
2) Av. Pres. Roca 825, Rio Gallegos, Sta. Cruz. L.P: Dir. Gen: J. Carlos Gamallo. Dir. Tec: A. Filet. FM: 99.3MHz.
3) 9 de Julio 3560, Santa Fé. L.P: Dir. Gen: L. H. Bonaparte.
4) Junin 383, Posadas, Misiones.
5) Ca. 10 y Av. 53, La Plata. Te: 3-9158.
6) Marcelo T. de Alvear y 27 de Abril, Córdoba.
7) Belgrano y Comandante, Salas San Rafael, Mendoza.
8) Plaza Rocha 133, La Plata. L.P: Dir. Gen: J. V. Sureda. Dir. Tec: A. G. Pistonato.
9) El Turbio, Santa Cruz.
10) N. Uriburu y Francisco, Malargüe, Mendoza.
11) Alvear, Corrientes.
12) Victor Navajas 844, Santo Tomé, Corrientes.

GOVERNMENT OWNED COMMERCIAL STATIONS

ADMINISTRATION GENERAL DE EMISORAS COMERCIALES DE RADIO Y TELVISION
ADDR: Maipú 555, Buenos Aires. Te: 392-8444.
L.P: Cnel. V. Salas.
Short Waves: Location: Buenos Aires.

	Call	kHz	m	kW	Name	h of tr.
29)	LRS2	5985	50.13	1	R. Splendid:	10.00-05.00
30)	LRY1	6090	49.26	40	R. Belgrano:	15.00-06.00
39)	LRX1	6120	49.02	10	R. El Mundo:	10.00-16.00 21.30-05.00
39)	LRX2	9710	30.90	7.5	R. El Mundo:	21.30-05.00
29)	LRS1	9740	30.79	1	R. Splendid:	10.00-05.00
39)	LRX	11755	25.52	7.5	R. El Mundo:	16.00-21.30
30)	LRY2	11780	25.47	8	R. Belgrano:	15.00-06.00
29)	LRS	11880	25.25	1	R. Splendid:	10.00-05.00
39)	LRU	15290	19.62	5	R. El Mundo:	10.00-21.30

PRIVATELY OWNED COMMERCIAL STATIONS

ASOCIACION RADIODIFUSORAS PRIVADAS ARGENTINAS (A.R.P.A.)
ADDR: Cangallo 1561, Buenos Aires. Te: 354412. L.P: Pres: Enrique A. Vidal.
Medium Waves: °=Shortwave; *=Gov. owned.

	Call	kHz	kW	Name, location & h of tr.
1)	LV1	560	25/30	R. Colón, San Juan: 10.30-05.30
2)	LT15	560	10/3	R. del Litoral, Concordia: 10.30-06.00
3)	LW1	*580	25	R. Universidad de Córdoba, Córdoba: 10.00-05.00
4)	LU20	°580	25/5	R. Chubut, Trelaw: 10.30-04.15
5)	LV12	*590	25/5	R. Independencia, Tucumán: 11.00-05.00
6)	LS4	590	20/5	R. Continental, Buenos Aires: 24 h
7)	LU8	*590	25/5	R. Bariloche, San Carlos de Bariloche: 12.00-04.30
8)	LV14	*620	5/1.5	R. Joaquin V. González, La Rioja: 11.00-04.30
9)	LU15	620	5	R. Viedma, Viedma: 11.00-04.00
10)	LS5	630	20/4	R. Buenos Aires, Buenos Aires: 24 h
11)	LU4	*640	25/10	R. Patagonia Argentina, Comodoro Rivadavia: 10.00-06.00
12)	LV15	*640	5/1	R. Villa Mercedes, Villa Mercedes: 10.55-04.00
13)	LU9	670	25/5	R. Mar del Plata, Mar del Plata: 24 h
14)	LU12	680	25/5	R. Rio Gallegos, Rio Gallegos: 13.00-04.00
15)	LV6	680	25/30	R. Nihuil, Mendoza: 10.00-05.30
16)	LU19	690	10/5	R. La Voz del Comahué Cipolleti: 10.00-04.30
17)	LV10	720	20/5	R. de Cuyo, Mendoza: 24 h
18)	LW7	*730	5/1	R. Catamarca,: 10.55-05.00
19)	LV8	*780	10/5	R. Libertador, Mendoza: 10.00-05.00 (Sat/Sun 07.00)
20)	LR6	*790	50	R. Mitre, Buenos Aires: 24 h
21)	LT16	*820	20/3	R. Splendid, Pres. Roque Sa'enz Peña: 10.00-04.30
22)	LU24	820	3	R. Tres Arroyos, Tres Arroyos
23)	LT8	*830	10/5	R. Rosario, Rosario: 09.00-06.00
24)	LV9	830	25/5	R. Güemes, Salta: 10.30-07.00
25)	LT12	*840	10/5	R. General Madariaga, Corrientes: 11.00-04.00
26)	LU2	840	25/5	R. Bahia Blanca, Bahia Blanca: 24 h
27)	LV7	*900	10/5	R. Tucumán, Tucumán: 10.00-06.00
28)	LT7	900	25	R. Provincia de Corrientes, Corrientes: 10.00-04.30
29)	LR4	*°910	50	R. Splendid, Buenos Aires: 10.00-05.00
30)	LR3	*°950	100	R. Belgrano, Buenos Aires: 09.00-05.00
31)	LW8	*960	25/5	R. Jujuy, Jujuy: 10.30-04.30
32)	LV2	*970	25/5	R. La Voz de la Libertad, Córdoba: 10.00-04.00
33)	LR5	*990	50	R. Excelsior, Buenos Aires: 11.00-06.00
34)	LT4	1010	25/3	R. Misiones, Posadas: 24 h
35)	LV16	1010	20/5	R. Ranquel, Rio Cuarto: 10.30-04.30
36)	LT2	*1020	15/5	R. Splendid Rosario, Rosario: 10.00-05.00
37)	LU21	1020	10	R. Golfo San Jorge, Caleta Olivia: 11.00-04.00
38)	LS10	1030	25/5	R. Libertad, Buenos Aires: 24 h
39)	LR1	*°1070	110	R. El Mundo, Buenos Aires: 10.00-05.00
40)	LU16	1080	1	R. Rio Negro, Villa Regina: 12.00-04.00
41)	LV5	*1090	25/5	R. Sarmiento, San Juan: 10.30-07.00 (Sun 04.30)
42)	LR2	*1110	20/5	R. Argentina, Buenos Aires: 10.00-06.00
43)	LU7	*1120	10/5	R. General San Martin, Bahia Blanca: 10.00-06.00
44)	LU5	*1130	20/5	R. Splendid, Neuquén: 11.00-04.30
45)	LV11	1130	25/5	R. del Norte, Santiago del Estero: 11.00-04.00
46)	LT5	*1150	10/5	R. Chaco, Resistencia: 10.00-05.00
47)	LU6	*1150	25/5	R. Atlántica, Mar del Plata: 24 h
48)	LT3	*1160	10/5	R. Cerealista, Rosario: 10.00-05.00 (Sat/Sun 06.00)
49)	LV4	*1170	25/5	R. San Rafael, San Rafael: 10.30-05.00
50)	LR9	*1190	5	R. Antartida, Buenos Aires: 10.00-04.00
51)	LW3	*1190	10/5	R. Splendid Tucumán, Tucumán: 10.55-06.00
52)	LU3	1200	25/5	R. del Sur, Bahia Blanca: 10.00-05.00
53)	LT6	*1200	5/3	R. Genaro Berón de Astrada, Goya: 10.00-04.00
54)	LV3	*1210	25/5	R. Córdoba, Córdoba: 10.00-06.00
55)	LU10	1240	5/3	R. Azul, Azul: 10.00-05.00
56)	LV13	*1250	10/5	R. Granaderos Puntanos de San Luis: 10.30-04.30
57)	LT9	1260	10/5	R. Santa Fé, Santa Fé: 24 h
58)	LT11	*1300	3/1.5	R. Splendid, Concepción del Uruguay: 10.30-04.00
59)	LU13	1300	10/3	R. Necochea, Necochea: 10.30-05.00

	Call	kHz	kW	Name, location & h. of tr.
60)	LT14	*1330	10/2.5	R. General Urquiza, Paraná: 10.00-04.00
61)	LU11	1340	10/2	Radioemisora del Oeste, Trenque Lauquen: 10.30-03.30
62)	LS6	*1350	10/5	R. América, Buenos Aires:
63)	LU17	1390	10/5	R. Golfo Nuevo, Puerto Madryn: 11.00-04.00
64)	LT23	1430	0.25	R. San Jenaro Norte, San Jenaro Norte: 11.00-03.15
65)	LW2	1460	0.25	Radioemisora Tartagal, Tartagal: 12.00-04.00
66)	LT13	1470	1/0.5	R. Oberá, Oberá: 10.00-04.00
67)	LW4	1510	0.25	R. Orán, Orán: 12.00-04.00
68)	LU18	1510	10/5	R. El Valle, General Roca: 10.00-05.00
69)	LT18	1550	0.25	R. Eldorado, Eldorado: 10.00-02.00

Shortwaves:

	Call	kHz	m	Name and h of tr.
7)	LQGR3	3439.5	87.16	R. Chubut, Trelew: 15.00-20.00

Addresses & other information:
1) Mendoza 169, San Juan. **Te:** (04)4865. **L.P:** Dir: A. F. Bustelo G. Dir. Tec: C. Graffigna. **FM:** 98.5MHz 1kW. V. by letter. Rec. acc. Rp.
2) San Martin 371, Concordia, Entre Rios.
3) Rivera Indarte 170, Córdoba. **L.P:** Dir. Gen: J. Robino. **FM:** 93.5MHz 0.5kW.
4) Ca. Italia 47, Trelew, Chubut. **L.P:** Dir: T. Borìc. Dir. Tec: B. Mayer. V. by letter. Rec. acc.
5) Rivadavia 118, Tucumán. **L.P:** Dir: P. Domingo C. V. by letter. Rec. acc.
6) Rivadavia 827, Buenos Aires.
7) San Carlos de Bariloche, Rio Negro. **L.P:** Dir: A. Genzano.
8) Mitre 745, La Rioja. **L.P:** Dir: J. J. Moreno.
9) Rivadavia 336, Viedma, Rio Negro. **L.P:** Dir: O. Aldo Liccardi.
10) Arenales 2467, Buenos Aires.
11) Moreno 765, Comodoro Rivadavia. **L.P:** Dir: O. Caridad.
12) Balcarce 470, Villa Mercedes, San Luis. **L.P:** Dir: L. Urtubey.
13) Quintana 3998, Mar del Plata.
14) Av. San Martin 461, Rio Gallegos, Santa Cruz. **L.P:** Dir: A. R. Segovia.
15) Rioja 1239, Mendoza. **L.P:** Dir: G. F. Sánchez C. V. by letter. Rec. acc. Rp.
16) Casilla 14, Cipolletti. **L.P:** Dir: R. Rost.
17) Av. San Martin y Gral Paz, Mendoza.
18) Rivadavia 741, Catamarca. **L.P:** Dir: E. N. Morcos.
19) Rioja 1484, Mendoza. **L.P:** Dir: J. A. Oesterheld.
20) Maipú 555, Buenos Aires. **L.P:** Dir. Gen: M. de la Ferrere.
21) Urquiza 585, Presidencia Roque Sáenz Peña, Chaco. **L.P:** Dir: M. Alberti.
22) Tres Arroyos, Prov. Buenos Aires.
23) Córdoba 1825, Rosario. **L.P:** Dir: A. Vitola.
24) Caseros 460, Salta. **L.P:** Dir: E. Vidal.
25) Av. General San Martin 2081, Paso de los Libres, Corrientes. **L.P:** Dir: R. Vertiz.
26) Sarmiento 54, Bahia Blanca. **L.P:** Dir: D. J. de Massot. V. by letter.
27) Mendoza 273, San Miguel de Tucumán, Tucumán. **L.P:** Dir. Gen: E. Martinez. Dir. Tec: J. Cumine. V. by QSL-card.
28) Rioja 743, Corrientes. **L.P:** Dir. Gen: J. Félix Gómez. **FM:** 96.5MHz 1kW. V. by letter. Rec. acc.
29) Maipú 555, Buenos Aires. **Te:** 42-9602. **L.P:** Dir. Gen: J. Pozos. Dir. Tec: C. Norman Cutler. V. by QSL-card.
30) Uruguay 1237, Buenos Aires. **Te:** 42-9020. **L.P:** Dir. Gen: R. Gonzales. Mgr: R. Carballa. Dir. Tec: M. Koelble. **D.Prgr:** N: every h. on the h. **Int-Sig:** 4 notes on vibraphone. V. by QSL-card.
31) Ramirez de Velazco 253, Jujuy. **L.P:** Dir. Gen: J. H. Pasini B.
32) Maipú 166, Córdoba. **L.P:** Dir: Samuel Breton.
33) Maipú 555, Buenos Aires. **L.P:** Dir. J. Pozos. V. by letter
34) Cas. 18, Posadas, Misiones. **L.P:** Dir. Gen: C. Madelaire. Dir. Tec: C. de la Cruz L. V. by letter. Rec. acc.
35) Rivadavia 180, Rio Cuarto, Córdoba. **L.P:** Dir. Gen: O. Marcos R.
36) Santa Fé 1388, Rosario. **L.P:** Dir: J. Migno.
37) Don Bosco y Ruta 3, Caleta Olivia, Santa Cruz. **L.P:** Dir: A. Gabella. V. by letter. Rec. acc.
38) Florida 165, Buenos Aires.
39) Maipú 555, Buenos Aires. **Cable:** "Radiomundo". **L.P:** Dir. Gen: M. de la Ferrere. Dir. Tec: Ch. N. Cutler. V. by QSL-card.
40) Reconquista 135, Villa Regina, Rio Negro. **L.P:** Dir: D. López.
41) Mendoza 466, San Juan. **L.P:** Dir: J. A. Oesterheld.
42) Santa Fé 2043, Buenos Aires.
43) Alsina 247, Bahia Blanca. **L.P:** Dir: L. A. Lichinsky.
44) Juan N. Alberdi 189, Neuquén. **L.P:** Dir: E. Duran C.
45) Libertad 251, Santiago del Estero. **L.P:** Dir: J. Binotti.
46) 9 de Julio 1855, Resistencia, Chaco. **L.P:** Dir. O. Benitez.
47) San Martin 2583, Mar del Plata. **L.P:** Dir: A. E. Giuntini.
48) Balcarce 840, Rosario. **L.P:** Dir: A. Ciampoli.
49) Irigoyen y Francia, San Rafael, Mendoza. **L.P:** Dir: C. G. Balmaceda.
50) Maipú 555, Buenos Aires. **L.P:** Dir. Gen: M. de la Ferrere. V. by letter.
51) Mendoza 225, Tucumán. **L.P:** Dir: E. Valey.
52) Lamadrid 116, Bahia Blanca. **L.P:** Dir: R. Mazeris. V. by letter. Rec. acc.
53) Mariano 1, Lloza 231, Goya, Corrientes. **L.P:** Dir: F. Prevosti.
54) San Martin 70, Córdoba. **L.P:** Dir: R. N. Berrotaran.
55) Av. Mitre 819, Azul. **L.P:** Dir: José Borrero. V. by letter. Rec. acc.
56) Rivadavia 563, San Luis. **L.P:** Dir. Tec: P. Olguin.
57) San Martin 2685, Santa Fé. **L.P:** Dir: R. Savio.
58) Onésimo Leguizamón 269, Concepción del Uruguay Entre Rios. **L.P:** Dir: A. Moret.
59) Balcarce 2950, Necochea. **L.P:** Dir: M. R. G. de Rico.
60) Rivadavia 126, Paraná, Entre Rios. **L.P:** Dir: C. M. Wildener Fox.
61) Cas. 36, Trenque Lauquen. **L.P:** Dir: R. Saez.
62) Uruguay 1237, Buenos Aires. **L.P:** Dir: M. Campollops.
63) B. Mitre y Estivariz, Puerto Madryn, Chubut. **L.P:** Dir: E. J. Cassani.
64) San Martin y Blvd. Inglaterra, San Jenaro Norte, Santa Fé. **L.P:** Dir. Gen: N. R. Maritano. V. by letter.
65) Gorriti 524, Tartagal, Salta. **L.P:** Dir: N. S. Martinez Gil. V. by letter. Rec. acc.
66) Larrea 886, Oberá, Misiones. **L.P:** Dir: H. Amable.
67) 9 de Julio 163, Orán, Salta. **L.P:** Dir: G. Bernad. V. by letter. Rec. acc.
68) 25 de Mayo 880, General Roca, Rio Negro. **L.P:** Dir: H. Cozzi. V. by letter. Rec. acc.
69) San Martin 1924, Eldorado, Misiones. **L.P:** Dir: J. M. Colcombet. Mgr: M. Angez M. Dir. Tec: J. Barth. V. by letter. Rec. acc.

BOLIVIA

L.T: GMT — 4 h — **Pr.L:** Spanish — **E.C:** a/c 50 or 60 (no).

DIRECCION GENERAL DE TELECOMUNICACIONES
Departamento de Radiodifusion, La Paz — L.P: Dir. Gen: H. Valdivia R.

ASOCIACION BOLIVIANA DE RADIODIFUSORAS (ASBORA) — ADDR: Casilla 2431, La Paz. **Te:** 25883. **L.P:** Pres: R. Salmón. Vice Pres: J. Blanco G. Secr. Gen: L. Suarez B. Permanent Secr: E. Costas S.

STATIONS: Medium Waves: °=shortwave.

	Call	kHz	kW	Name, location and h of tr.
1)	CP91	°580	10	R. Panamericana, La Paz
2)	CP63	620	1	R. San Gabriel, La Paz: 10.00-02.00
3)	CP34	680	5	R. Mendez, La Paz
4)	CP27	°730	10	La Cruz del Sur, La Paz: 10.00-03.00
5)	CP46	°780	0.25	R. Universo, La Paz
6)	CP108	780	0.25	R. Independencia, Quillacollo: 10.00-04.00
7)	CP52	780	0.25	R. Potosi, Potosi
8)	CP35	°820	1	R. Altiplano, La Paz: 24 h
9)	CP20	°900	0.25	R. El Condor, La Paz: 12.00-03.00
10)	CP28	900	0.25	R. Cochabamba, Cochabamba
11)	CP79	900	0.25	La Voz Nacional, Tarija
12)	CP112	930	0.25	R. Frontera, Yacuiba
13)	CP11	°930	0.25	R. Amauta, La Paz: 12.00-18.00, 22.00-04.00
14)	CP43	°930	5	R. Pirai, Sta. Cruz
15)	CP32	°960	0.25	R. Santa Cruz, Sta. Cruz: 12.00-18.00, 22.00-03.00
16)	CP93	960	0.25	R. Kollasuyo, Potosi
17)	CP4	°1020	20	Emisora del Estado, La Paz: 10.00-04.00
18)	CP57	°1090	10	R. Progreso, La Paz: 09.00-04.30
19)	CP25	°1160	0.25	R. Centenario, Sta. Cruz
20)	CP78	1160	0.25	R. Tunari, Cochabamba
21)	CP19	°1160	2	R. Agustin Aspiazu, La Paz: 09.00-04.00
22)	CP98	1160	0.25	R. Nuevo Mundo, Sucre
23)	CP67	1200	1	R. Splendid, La Paz
24)	CP37	°1200	0.15	R. Santa Ana, Sta. Ana: 13.00-17.00
25)	CP54	°1250	0.25	R. La Plata, Sucre: 12.00-18.00, 22.00-03.00

Bolivia

	Call	kHz	kW	Name, location & h of tr.
26)	CP47	°1250	0.25	R. Cobija, Cobija: 10.00-03.00
27)	CP17	°1250	0.25	R. Sararenda, Camiri: 11.00-03.00
28)	CP16	°1250	0.25	R. Los Andes, Tarija: 10.00-04.00
29)	CP26	°1250	1	R. Amboro, Sta. Cruz: 10.00-04 00
30)	CP53	°1250	0.25	R. Indoamérica, Potosi: 11.30-03.00
31)	CP69	°1250	0.25	R. Nacional, Cochabamba
32)	CP14	1250	1	Emis. Unidas, La Paz
33)	CP65	1250	0.25	R. Oruro, Oruro: 14.00-19.00, 21.00-03.00
34)	CP100	°1250	0.25	R. Ibaré, Trinidad
35)	CP55	1270	0.25	R. Universidad, Oruro
36)	CP29	°1300	0.25	R. Fides, La Paz: 12.00-18.00, 22.00-04.00
37)	CP41	°1300	1	R. Loyola, Sucre: 10.00-22.00, 23.30-03.00
38)	CP45	1300	0.25	R. Cultura, Cochabamba
39)	CP68	°1300	1	R. San Rafael, Cochabamba: 24 h
40)	CP36	1330	0.25	R. Mercurio, Oruro
41)	CP106	1330	0.25	R. Trinidad, Trinidad
42)	CP24	°1340	0.25	R. Grigota, Sta. Cruz: 10.00-03.00
43)	CP82	1350	1	R. Electra, Potosi: 10.30-04.00
44)	CP3	1390	1	R. Nac. de Bolivia, La Paz: 08.00-04.00
45)	CP113	1390	0.25	R. Villazon, Villazon
46)	CP49	1420	1	R. Central, Cochabamba: 10.00-04.00
47)	CP104	1440	0.5	R. Oriente, Camiri
48)	CP107	1440	0.25	R. Yaguari, Vallegrande
49)	CP61	°1450	1	Radioem. Bolivia, Oruro: 10.00-04.00
50)	CP8	°1470	1	R. Nueva América, La Paz: 10.55-05.00
51)	CP1	1510	0.25	R. Chuquisaca, La Paz
52)	CP79	1510	0.25	R. La Voz Nacional, Tarija
53)	CP80	1510	0.25	R. Litoral, Cochabamba
54)	CP101	1510	0.25	R. Suipacha, Villazon
55)	CP102	°1510	0.25	R.27 de Diciembre, Villa Montes
56)	CP121	1510	1	R. Cetcar, Oruro
57)	CP111	1530	0.25	R. Ballivian, San Borja
58)	CP116	1530	0.5	R. Cosmos, Cochabamba
59)	CP50	°1550	0.5	R. Pio XII, Llallagua: 11.00-04.00
60)	CP83	°1550	0.5	R. Norte, Montero
61)	CP115	1550	1	R. Caranavi, Caranavi
62)	CP118	1590	0.25	R. Eduardo Avaroa, Caranavi

Short Waves: All st's comm. exc. 4), 26), 59) (Rel), 17) Gov.)
* = inactive.

	Call	kHz	m	kW	Name and h or tr.
63)	CP117	3280	91.40	0.5	R. Riberalta, Riberalta
14)	CP97	3320	90.34	1	R. Pirarai, Santa Cruz
55)	CP103	3350	89.55	1	R. 27 de Diciembre, Villa Montes
64)	CP85	3370	89.02	0.5	R. Universidad, Tarija
65)	CP109	3380	88.76	0.25	R. Reyes, Reyes
24)	CP89	3390	88.50	0.15	R. Santa Ana: 22.30-01.00
49)	CP62	4760	63.03	5	Radioem. Bolivia, Oruro: 10.00-04.00
28)	CP84	4775	62.84	1.5	R. Los Andes, Tarija: 10.00-04.00
30)	CP74	4785	62.70	1	R. Indoamericana, Potosi: 11.30-03.00
50)	CP73	4795	62.57	1	R. Nueva América, La Paz: 10.55-18.30, 22.00-05.00
66)	CP114	4805	62.43	0.25	R. San Miguel, Riberalta
67)	CP56	4815	62.31	0.1	R. Onkoi, Concepción
42)	CP70	4825	62.18	1	R. Grigota, Sta. Cruz: 10.00-03.00
36)	CP72	4850	61.86	5	R. Fides, La Paz: 12.00-18.00, 22.00-04.00
19)	CP66	4855	61.79	1	R. Centenario, Sta. Cruz
26)	CP59	4855	61.79	1	R. Cobija, Cobija: 10.00-03.00
27)	CP77	4885	61.45	1	R. Sararenda, Camiri: 11.00-03.00
29)	CP88	4915	61.03	5	R. Amboro, Sta. Cruz: 10.00-04.00
60)	CP110	4935	60.80	1	R. Norte, Montero
34)	CP105	4955	60.54	0.5	R. Ibaré, Trinidad
68)	CP90	4965	60.42	1.5	R. Juan XXIII, San Ignacio de Velasco: 10.00-13.30, 15.00-17.00, 23.00-03.00
17)	CP5	4980	60.25	20	Emis. del Estado, La Paz
4)	CP75	4985	60.18	10	La Cruz del Sur, La Paz: 10.00-18.00, 22.00-03.00 (Sun 10.00-03.00)
5)	CP48	5015	59.82	1	R. Universo, La Paz
8)	CP38	5045	59.47	5	R. Altiplano, La Paz: 24 h
39)	CP87	5055	59.35	5	R. San Rafael, Cochabamba: 09.30-04.00
59)	CP60	5955	50.38	1	R. Pio XII, Llallagua: 11.00-13.30, 14.30-19.00, 20.45-04.00
31)	CP44	5975	50.21	1	R. Nacional, Cochabamba: 12.00-03.00
37)	CP51	5995	50.04	1	R. Loyola, Sucre: 10.00-18.30, 23.30-03.00
18)	CP58	6005	49.96	10	R. Progreso, La Paz: 09.00-04.30
1)	CP92	6035	49.71		R. Panamericana, La Paz
69)	CP18	6070	49.92	1	R. El Condor, Oruro: 12.00-18.00, 22.00-02.00
9)	CP15	6125	48.98	1	R. El Condor, La Paz: 12.00-03.00
15)	CP30	6135	48.94	1	R. Sta. Cruz, Sta. Cruz: 12.00-18.00, 22.00-03.00
70)	CP81	6140	48.86	0.5	R. Luis de Fuentes, Tarija: 11.00-14.30, 16.00-18.30, 21.00-04.00
36)	CP12	6155	48.74	1	R. Fides, La Paz: 12.00-18.00, 22.00-04.00
13)	CP9	6185	48.50	1	R. Amauta, La Paz: 12.00-18.00, 22.00-04.00
5)	CP71	6195	48.43	5	R. Universo, La Paz: 10.00-19.00, 21.00-04.00
5)	CP64	9505	31.36	1	R. Universo, La Paz: 11.00-15.00, 16.00-20.00, 22.00-04.00
17)	CP6	9555	31.40	10	Emis. del Estado, La Paz: 11.00-13.00, 16.00-04.00
21)	CP13	9600	31.25	1	R. Agustin Aspiazu, La Paz: 09.00-04.00
25)	CP21	9715	30.88	1	R. La Plata, Sucre: 12.00-18.00, 22.00-03.00
17)	CP7	*11765	25.50	10	Emis. del Estado, La Paz
60)	CP39	11775	25.48	10	La Cruz del Sur, La Paz

Departments (Departamentos) Ben = Beni; Coc = Cochabamba; Chu = Chuguisaga; LPa = La Paz; Oru = Oruro; Pan = Pando; Pot = Potosi; SCr = Santa Cruz; Tar = Tarija.

Addresses & other information:
Correo Central, La Paz, LPa. **L.P:** Dir: M. Dueri.
2) Cas. 4792, La Paz, LPa. V. by letter or QSL-card.
3) Av. 6 Agosto 2008, La Paz, LPa.
4) Cajón 1408, La Paz, LPa. Te: 25578. **L.P:** Dir. Adm: H.C. Parent. Dir. Tec: M. Mamani. **D.Prgr:** N: 12.00, 13.00, 13.55, 17.00, 23.00, 00.00, 01.00, 02.15. **FM:** 95MHz 0.25kW. V. by QSL-card. Rp. Rec. acc.
5) Cas. 3994, La Paz, LPa. Te: 2-2995. **Cable:** Dico. **L.P:** Dir. Gen: J. Blanco G. Dir. Tec: A. Berthin. V. by letter.
6) Ballivan 41, Qillacollo, Coc. **L.P:** Dir. Gen: O. David Garcia. V. by letter. Rec. acc.
7) Cas. 150, Potosi, Pot.
8) Av. Camacho 1468, La Paz, LPa. Te: 40777. **L.P:** Dir. Gen: M. Marañon Z.Mgr: L. Chavez. **D.Prgr:** N: Every h on the h. **FM:** 90MHz. V. by letter. Rpt. to Cas. 1081, La Paz. Rec. acc.
9) Correo Central, La Paz, LPa. Te: 2-3070. **D.Prgr:** N: 11.30, 16.30, 23.30, 02.30. V. by letter.
10) Cas. 886, Cochabamba, Coc.
11) Correo Central, Tarija, Tar.
12) Correo Central, Yacuiba, Tar.
13) Cas. 586, La Paz, LPa. L.P: Dir. Gen: L. S. Perez. Dir. Tec: J. J. Saavedra M. **D.Prgr:** N: 11.15, 16.45, 00.30.
14) Correo Central, Sta. Cruz, SCr. **L.P:** Dir: Arzabe.
15) Cas. 672, Santa Cruz, SCr. Te: 31. **L.P:** Dir: E. Peña S. V. by letter.
16) Correo Central, Potosi, Pot.
17) Ayacucho 467, La Paz, LPa. Te: 29686. **L.P:** Dir. Gen: M. Ortiz O. Dir. Tec: F. Ballivián. **D.Prgr:** N: 11.00, 17.00, 01.30. V. by letter and QSL-card. Rec. acc.
18) Cas. 110, La Paz, LPa. Te: 28440. **L.P:** Dir. Prgr: J. Hochmann S. Gen. Mgr: J. Romecin G. **FM:** 89MHz 1kW. **D.Prgr:** N: on the h. V. by letter. Rec. acc.
19) Argamosa 2, Sta. Cruz, SCr.
20) Cochabamba, Coc. **L.P:** Dir: R. Montecrios L.
21) Indaburo 971, La Paz, LPa. Te: 2564. **L.P:** Dir. Gen: H. A. Aspiazu N. Mgr: J. Ballon S. **D.Prgr:** N: 12.00, 16.30, 01.00. **FM:** 96MHz 0.1kW.
22) Correo Central, Sucre, Chu.
23) Av. Arce 2164, La Paz, LPa. **L.P:** Dir: G. Velasco A.
24) Correo Central, Santa Ana del Yacuma, Ben. **L.P:** J. Rojas S. **D.Prgr:** N: 23.00. V. by letter. Rec. acc. Rp.
25) Plaza 25 de Mayo 41, Sucre, Chu. Te: 1231. **L.P:** Dir: G. Donosa T.
26) Correo Central, Cobija, Pan. **L.P:** Dir: J. Landivar.
27) Correo Central, Soc. Ltda, Sararenda, Camiri, SCr.

L.P: Dir. Gen: H. Eyaguirre S. D.Prgr: N: 16.10, 01.00. V. by letter.
28) Cas. 34, Tarija, Tar. L.P: Dir: J. Rollano M.
29) Cas. 697, Sta. Cruz, SCr. L.P: Dir. Gen: A. Ayala B. Dir: A. Rojo M. Dir. Tec: J. Thompson. D.Prgr: N: 11.30, 17.00, 01.30, 02.15. E: 14.00, 22.00. V. by letter.
30) Ca. Mattos 35, Potosi, Pot.
31) Cas. 526, Cochabamba, Coc. Te: 5914. L.P: Dir. Gen: A. Lopez. Dir: J. Cruz A.
32) Av. Camacho 1324, La Paz, LPa.
33) Correo Central, Oruro, Oru.
34) Correo Central, Trinidad, Ben.
35) Universidad Técnica, Oruro, Oru.
36) Cas. 283, La Paz, LPa. Te: 24422. L.P: Dir. Gen: J. Gramunt. Dir. Tec: J. M. Lop. D.Prgr: N: 11.30, 12.45, 01.00. V. by letter.
37) Cas. 155, Sucre, Chu. Te: 1677. Cable: Radioloyola. L.P: Dir. Gen: R. Gutiérrez E. Dir. Tec: J. Vedia V. Dir. Prgr: D. Cabezas C. D.Prgr: N: 12.00, 14.00, 16.00, 16.45, 22.00, 00.00, 02.00. V. by letter. Rec. acc.
38) Cas. 886, Cochabamba, Coc.
39) Cas. 546, Cochabamba, Coc. Te: 4495. L.P: Dir: Rev. L. J. Sommer. Dir. Tec: V. Rivera. Dir. of Prgr: M. Godoy. N: 11.15, 16.45, 23.00, 01.00. FM: 92.0MHz 0.05kW. V. by letter. Rec. acc. Rp.
40) Cas. 496, Oruro, Oru.
41) Ca. 18 de Noviembre, Trinidad, Ben.
42) Cas. 203, Sta. Cruz, SCr. Te: 309. Cable: Grigota. L.P: Dir. Gen: D. Arteaga F. Dir. Tec: H. Mendivill. D.Prgr: N: 11.35, 17.00, 01.30. V. by letter.
43) Cas. 19, Potosi, Pot. L.P: Dir. Gen: L. Aramayo B. D.Prgr: N: 12.00, 17.00, 00.00, 03.00. V. by letter. Rec. acc.
44) Apt. 2532, La Paz, LPa. Te: 29967. L.P: Dir: E. Costas. V. by letter. Rec. acc.
45) Correo Central, Villazon, Pot.
46) Cas. 838, Cochabamba, Coc. L.P: Dir. Gen: Oropeza de los Llanos. V. by QSL-card.
47) Correo Central, Camiri, Sta. Cruz, SCr.
48) Correo Central, Vallegrande, SCr.
49) Cas. 525, Oruro, Oru. Te: 51944. L.P: Dir. Gen. & Dir. Tec: R. Von Borries. Mgr: R. Santander R. D.Prgr: N: 11.30, 13.00, 14.00, 15.00, 16.20, 18.00, 20.00, 21.00, 22.00, 23.20, 02.00, 03.00. FM: 158MHz. V. by letter. Rec. acc.
50) Cas. 2431, La Paz, LPa. Te: 2-5883. L.P: Dir. Gen: R. Salmon. D.Prgr: N: 12.00, 17.00, 24.00.
51) Indaburo 1268, La Paz, LPa.
52) Correo Central, Tarija, Tar.
53) Cas. 1009, Cochabamba, Coc.
54) Correo Central, Villazon, Pot.
55) Correo Central, Villa Montes, Tar. L.P: Dir: J. Maldonado E. V. by letter.
57) Correo Central, San Borja, Ben.
58) Correo Central, Cochabamba, Coc. L.P: Dir: H. Peñarriete.
59) Correo Central, Llallagua, Pot. L.P: Dir. Gen: Rev. Padre G. Dicaire O.M.I. Dir. Tec: V. Fernández C. Dir. Prgrs. M. Otero. D.Prgr: N: 11.20, 13.00, 15.00, 16.20, 19.00, 23.20. V. by letter. Rec. acc.
60) Correo Central, Montero, Sta. Cruz, SCr.
61) Caranavi, Nor Yungas, LPa.
62) Caranavi, LPa. L.P: Dir: J. Suarez.
63) Riberalta, Ben. L.P: Dir: Florido.
65) Correo Central, Reyes, Ben. L.P: Dir: R. Arze S.
67 Correo Central, Concepción, SRc. L.P: Dir. Gen: Padre L. Falch. V. by letter.
68) San Ignacio de Velasco, SCr. L.P: Dir. Gen: P. Bayer K. Dir. Tec: H. Salazar S. D.Prgr: N: 11.00, 16.00, 01.30. V. by letter. Rp. Rec. acc.
69) La Plata 1139, Oruro, Oru.
70) Cas. 125, Tarija, Tar.

BRAZIL

L.T: Eastern (Coastal): GMT — 3 h (Su: GMT — 2 h). Western: GMT — 4 h (Su: GMT — 3 h). Acre: GMT — 5 h (Su: GMT — 4 h) — Pr.L: Portuguese.

CONSELHO NACIONAL DE TELECOMUNICACOES
(National Council of Telecommunications), Rua Miguel Coutu 105, Rio de Janeiro.

ASSOCIA CAO BRASILEIRO DE EMISSORAS DE RADIO E TELEISAO
Addr: Av. Rio Branco 4, salas 901-903, Rio de Janeiro, G.B. Te: 43-87-26. Cable: Albertrio — L.P: Pres: Dr. J. de Medeiros Calmon. Exec. Dir: R. Tavares.
St's belonging to ABERT: 3), 6), 15), 16), 23), 37), 38), 39), 46, 47), 55), 56), 58), 60), 61), 70), 71), 72), 83), 86), 95), 96), 100), 106, 110), 111), 114), 131), 132), 139), 143), 146), 150), 162), 164), 170), 171), 177), 184), 197), 207), 212), 214), 215), 220), 224), 228), 243), 247), 253), 255), 259), 273), 279), 287), 288), 294), 300), 304), 307), 308), 310), 312), 313), 325), 330), 332), 334), 343), 344), 349), 350). + 236 m.w.st's.

DIARIOS EMISSORAS ASSOCIADOS
Internat. Relations Dept, Rua S. Cabral 103, Rio de Janeiro, G.B. Te: 22-0182. Cable: Silapress or Meridiano. Telex: 031-380 — L.P: Dir. Gen: Dr. João de Medeiros Calmon. Exec. Dir: Dr. Jose de Almeido Castro. Head, Internat. Division: Miss Maria Porto. St's belonging to Diarios Associados: 16), 41), 46), 56), 58), 83), 86), 96), 109), 116), 148), 159), 172), 212), 214), 220), 222), 235), 237), 243), 255), 287), 309).
NB: All st's carry "A Voz do Brazil" at 22.00.
Medium Waves: ° = shortwave.

Call	kHa	kW	Name, location & h of tr.
1)	540	1	R. Tambau
2) ZYR98	°540	10	R. 9 de Julho, São Paulo: 08.00-03.00
3) ZYZ22	°550	10	R. Eldorado, Rio de Janeiro
4) ZYN4	560	1/0.25	R. Soc. Passos, Passos
5) ZYN41	560	5	R. Jornal Itabuna, Itabuna: 09.00-03.00
6) ZYM5	°560	10	R. Soc. Guiracá, Curitiba
7) ZYW27	°580	10/5	R. Dif. de Goiânia
8)	580	10	R. Reporter, Recife
9) PRG5	580	1/0.5	R. Atlantica de Santos, Santos: 09.00-05.00
10) ZYM3	580	1/0.5	R. Cataguazes, Cataguezes: 09.00-03.00
11) ZYM25	580	1/0.5	R. Dif. Brasileira, Prata
12) ZYD4	580	1/0.5	R Londrina, Londrina
13) ZYN38	590	10	R. Cruzeiro da Bahia, Salvador
14) ZYZ50	590	5	R. Ouru Verde, Curitiba: 09.00-04.00
15) ZYZ21	°590	1	R. Relogio, Rio de Janeiro
16) PRH2	°600	50	R. Farroupilha, Porto Alegre
17) ZYH35	°620	10	R. Assunção, Fortaleza
18) PRH7	°620	5/10	R. Panamericana, São Paulo
19) ZYX25	630	10	R. Dif. Bom Jesus, Cuiabá
20) ZYV44	630	1	R. Dif. Triangulina, Uberaba
21) ZYA3	630	1	R. Dif. Cambará, Cambará
22) PRJ6	630	1	R. Dif. Sergipe, Aracaju
23) ZYV29	°630	5	R. Itatiaia, Belo Horizonte
24) ZYU37	630	1	R. Santamariense, Santa Maria
25) ZYH89	640	30	R. Dif. Portoalegrense, Porto Alegre: 08.30-04.00
26) ZYI22	640	10	R. Cabugi, Natal: 08.00-03.30
27) ZYR256	640	1	R. La Voz da Araraquarense, Araraquara
28) PRG6	640	1	R. Soc. Mantiqueira, Cruzeiro
29)	640	10	R. Educ. de Brasilia, Brasilia: 09.00-03.00
30) ZYM22	°670	10/5	R. Cult. de Serguipe, Aracaju
31)	670	5/1	R. São Francisco, Anápolis: 08.00-04.00
32) ZYR56	°670	10	R. Excelsior, São Paulo
33) ZYK26	680	1	R. Dif. de Limoeiro, Limoeiro: 09.00-02.00
34) ZYS65	680	1	R. Soc. Ponta Grossa, Ponta Grossa
35) ZYS7	680	5	R. Soc. Norte de Minas, Montes Claros: 08.00-03.00
36) ZYR255	680	1	R. Colorado, Ribeirão Preto
37) ZYP20	°680	5	R. Copacabana, Rio de Janeiro
38) PRC2	°680	10	R. TV Gaucha, Porto Alegre
39) ZYH29	°690	10	R. Dragão do Mar, Fortaleza
40) ZYL22	°690	1	R. Educ. Palmares de Alagoas, Maceio
41) PRC7	690	10	R. Mineira, Belo Horizonte
42) ZYS44	°690	0.25	Dif. do Paraná, Londrina
43) ZYH63	690	10	R. Clube de Lages, Lages: 08.00-03.00
3) ZYR213	°700	50	R. Eldorado, Rio de Janeiro
45) ZYA8	°720	1	R. Dif. Taubaté, Taubaté: 24 h
46) PRA8	°720	25	R. Clube de Pernambuco, Recife
47) ZYU58	°720	50	R. Guaiba, Porto Alegre
48)	720	1/0.25	R. Bela Vista, Uberlandia
49)	720	1	R. Cult. de Belo Horizonte, Belo Horizonte
50) ZYV53	730	1	R. Dif. de Minas Gerais, João Monlevade
51)	730	1	R. Nordeste, Macau
52) ZYO9	730	1/0.25	Soc. da Radio Tuba, Tubarão: 08.55-03.00
53) ZYR80	730	2	Soc. R. Hora Cerfa, São Paulo

Call	kHz	kW	Name, location & h of tr.
54) ZYH8	730	0.5	R. Marumby, Curitiba: 09.30-03.00
55) ZYK40	°730	5/1	Voz do São Francisco, Petrolina: 09.00-03.00
56) ZYO21	°730	1	R. Vitoria, Vitoria
57) PRA7	°730	1	R. Cl. de Ribeirão Preto,
58) PRA4	°740	50	R. Soc. da Bahia, Salvador
59) PRN9	°760	2	R. Dif. Departamento Seguranca, Rio
60) PRL6	°780	20/10	R. Jornal do Comercio, Recife
61) ZYR79	°780	5	R. Ribeirão Preto, Ribeirão Preto: 08.00-04.00
62) ZYV38	°780	1/4	R. Educ. de Uberlandia, Uberlandia: 09.00-03.00
63 PRK8	780	5	R. Marconi, São Paulo: 24 h
64) ZYU71	780	1	R. Princesa, Porto Alegre
65) PRA2	°800	50	R. Ministerio da Educacão, Rio: 09.00-03.00
66) ZYM6	820	1/0.25	R. Mirador, Rio Sul
67) ZYR94	820	1	R. Universal, Santos
68) ZYA4	820	1/0.25	R. Dif. Parasiense, São Sebastião do Paraiso
69) ZYK37	820	10	Universidad do Recife, Recife
70) PRI5	°820	0.25	Voz do Sertão, Pres. Prudente
71) ZYV64	°840	1.25	R. Por um Mundo Melhor, G. Valadares
72) PRH9	°840	10	R. Bandeirantes, São Paulo: 24 h
73) ZYD8	840	10/5	R. Excelsior da Bahia, Salvador
74) ZYW42	840	5	R. Jornal de Goiás, Goiânia
75) ZYT33	840	1	R. Rural de Concordia, Concordia
76) ZYU77	840	5	R. Cult. de Gravataí, Porto Alegre
77)	840	1	R. Emiss. de Educacão Rural, Caicó
78) ZYS89	840	1	R. Tabajara, Londrina
79) PRA3	860	50	R. Mundial, Rio de Janeiro
80) PRI3	°880	50	R. Inconfidencia, Belo Horizonte
81) ZYU33	880	10	R. Itai, Porto Alegre
82) PRA6	°890	10/5	R. Gazeta, São Paulo
83) ZYK20	°890	20	R. Tamandaré, Recife
84) PRM3	890	25/5	R. Planalto, Brasília
85) ZYI23	900	10	R. Nordeste, Natal: 08.00-03.00
86) PRB7	°900	10	R. Tamoio, Rio de Janeiro
87) ZYR242	900	1/0.5	R. Cult. de Rio Preto, São José do Rio Preto
88) ZYO5	900	1/0.25	R. Dif. Bento Gonçalves, Bento Gonçalves
89) ZYS77	900	1	R. Emissora Santana
90) PRJ3	930	5	R. Araguari, Araguari
91) ZYM20	930	5	R. Liberdade de Sergpipe, Aracaju
92) ZYH3	930	1	R. Cult. de São Vicente, São Vicente: 24 h
93) ZYS25	930	5	R. Cultura Paraná, Curitiba
94) ZYU102	930	1/0.25	R. Aratiba, Aratiba
95) PRF4	°940	50	R. Jornal do Brasil, Rio de Janeiro: 08.30-05.00
96) PRF3	°960	10	R. Dif. São Paulo, São Paulo
97) ZYO4	960	10	R. Dif. de Alagoas, Maceió
98) ZYF5	960	1/0.25	R. Passo Fundo, Passo Fundo
99)	960	5/1	R. Atalaia, Belo Horizonte
100) ZYC33	°970	10	R. Soc. Feira de Santana, Feira de Santana: 07.30-04.00
101) ZYH32	970	1	R. Educ. do Nordeste, Sobral
102) ZYI26	970	1	R. Brejui, Currais Novos
103) ZYI21	970	5	R. Imembui, Santa Maria: 09.00-03.00
104) ZYH21	970	1	R. Iracema de Fortaleza, Juazeiro do Norte
105) ZYS72	970	1	R. Difusora, Maringa
106) ZYB3	°970	0.25	Lins R. Club, Lins
107) PRE8	°980	50	R. Nacional, Rio de Janeiro
18) PRE9	°1000	50	R. Panamericana, São Paulo
109) PRB3	1010	2	R. Soc. de Juiz de Fora, Juiz de Fora
110) ZYT26	°1010	7.5	R. Diario da Manha, Florianópolis
111) ZYN23	°1010	10/5	R. Bahia, Salvador
112) ZYS42	1010	1	R. Colombo do Parana, Curitiba: 08.00-03.00
113) PRB8	1030	1/0.25	R. Rio Preto, São José do Rio Preto
114) ZYK27	°1030	10	R. Clube de Pernambuco, Recife
115) PRD8	°1030	7.5	Emiss. Continental, Rio de Janeiro
116) PRG2	1040	50	R. Tupan de São Paulo, São Paulo
117) PRD2	1060	10	R. Emiss. Metropolitana, Rio de Janeiro
118) PRD7	1080	1	R. Clube de Sorocaba,
119) ZYN24	1080	1	R. Cultura, Feira de Santana
120) ZYB4	1080	1/0.5	R. Clube de Patos, Patos
121) ZYX7	1080	1/0.25	R. Teofilo Otoni, Teofilo Otoni
122) ZYE4	1080	1/0.5	R. Soc. de Friburgo, Novo Friburgo
123) ZYU67	1080	2/0.5	Universidade do Rio Grande do Sul, Porto Alegre
124) ZYV47	1080	1/0.25	R. Minas, Belo Horizonte
125) XYV52	°1080	0.25	R. Cultura de Câmbuquira, Cambuquira
126) ZYK22	1080	1/0.25	R. Dif. de Cauaru, Caruaru
127) ZYR64	1080	1/0.25	R. Piratininga de Votuporanga, Votuporanga
128) ZYI28	°1080	1/0.5	R. Educacão Rural, Mossoró
129) ZYW38	1080	5	R. Independencia, Goiânia
130) ZYE28	1080	10	R. Guarajá, Belém
131) PRI2	°1090	1	R. Clube de Marilia, Marília
132) ZYT9	°1090	1	R. Industrial de Juiz de Fora, Juiz de Fora
133) ZYT38	1090	1/0.25	R. Colon, Joinville
134) ZYN25	1090	1	R. Clube de Conquista, Vitoria de Conquista
135) ZYR240	1090	1	R. Cultura, Ribeirão Preto
136) ZYI25	°1090	10	Emiss. da Educacão Rural, Natal
65)	1090	1	R. Ministerio de Educ, Rio de Janeiro
137) ZYU50	1100	1	R. Emis. do Nordeste, Flores da Cunha
138) PRG9	°1100	50	R. Nacional, São Paulo: 10.00-03.00
139) PRI14	°1100	10	R. Tabajara, João Pessoa de Paraíba
140) ZYS57	1110	1	R. Paiqueré, Londrina
141) ZYT25	1110	1/0.25	R. Anita Garibaldi, Florianópolis
142) ZYS67	1110	1/0.25	R. Tapajóz, São Josédos Pinhais
143) PRF7	°1110	5	R. Cultura de Campos, Campos
144) ZYV66	1110	1	R. Planalto de Araguari, Araguari
145)	1110	1	R. Esmeraldas de Minas Gerais, Belo Horizonte
111) ZYN20	°1120	10	R. Bahia, Salvador
147) ZYU—	1120	10	R. Continental, Porto Alegre
148) ZYE20	°1130	10	R. Marajoára, Belém
149) PRH8	°1130	10	R. Mauá, Rio de Janeiro
150) ZYI24	°1130	1	R. Tapuyo de Mossoró, Mossoró: 08.55-04.00
151) ZYR217	1130	1	R. Cometa, São Paulo
152) ZYT34	1130	1/0.25	R. Dif. Vale do Itajai, Blumenau
153) ZYC28	1130	1	R. Atalaia de Sergipe, Aracajú: 08.00-03.00
154) ZYK34	1130	1	R. Relógio Musical, Recife
155) ZYH7	1160	1/0.5	R. Presidente Wenceslau, P. Wenceslau
156) ZYS73	1160	1	R. Clube de Londrina, Londrina
157) PRI9	°1160	10	R. Esperito Santo, Vitoria
158) PRH3	°1160	1	R. A. Voz do Oeste, Guibá
159) PRF5	1160	1	R. Cairi, Campina Grande
160) ZYA5	1160	1	R. Dif. de Joinville, Joinville
161) ZYS	1160	1	R. Pato Branco, Pato Branco
162) ZYG25	°1160	1	R. Pioneira de Teresina, Teresina
163)	°1170	1	R. Cultura Caiari, Porto Velho: 09.00-02.30
164) ZYG35	°1170	0.25	R. Caiari, Porto Velho
165) ZYI20	1170	1	R. Diario de Mossoró, Mossoró
166) PRC9	1170	5	R. Educadora de Campinas, Campinas: 08.00-05.00

Call	kHz	kW	Name, location & h of tr.
167) ZYU72	1170	1/0.25	R. Princesa do Jacui, Candelaria
168) ZYU38	1170	1/0.25	R. Municipal de Passo Fundo, Passo Fundo
169)	1170	1/0.25	R. Nazareth, Belém
170) PRE3	°1180	50	R. Globo, Rio de Janeiro
171) PRB6	°1200	10	Emiss. Piratininga, São Paulo
172) PRE9	°1200	10	Ceará Radio Club, Fortaleza
173) ZYU91	1200	1	R. Pampa, Porto Alegre: 10.00-03.00
174) PRL	°1200	10/5	R. Nacional, Brasilia: 08.00-05.00
175) PRG8	°1210	1/0.5	Bauru Radio Club, Bauru
176) ZYL9	1210	1/0.5	R. Cachoiera de Itapemirim
177) ZYB2	°1210	1/0.5	R. Clube de Varginha, Varginha: 11.00-01.00
178) ZYZ9	°1210	1	R. Emiss. Paranaense, Curitiba
179) ZYX—	1210	1	R. Baré, Cuiabá
180) ZYK23	1210	1/0.5	R. Dif. do Garanhuns, Garanhuns
181)	1210	1	R. Sul Rio Grandense, Erechin
182) ZYU46	1210	1	R. Dif. A Voz de Bagé, Bagé
183) ZYU210	1210	1/0.25	R. São Miguel, Uraguaiania: 08.00-03.00
184) ZYB21	°1240	5	R. Dif. do Amazonas, Manaus
185) ZYC4	1240	1/0.5	Soc. Ubaense, Uba
186) ZYP4	1240	1/0.4	R. Dif. Guarapuava, Guarapuava: 09.00-02.00
187) PRB5	1240	1	R. Clube Hertz, Franca
188) PRE6	1240	5	R. Alvorada, Brasilia
189) ZYU76	1240	1/0.25	R. Tupanci, Pelotas
190) ZYH90	1240	1	R. Cult. de Joinville, Joinville: 07.00-04.00
191) ZYR84	1240	1/0.25	R. Presidente Wenceslau, Pres. Prudente
192) ZYK36	1240	5/1	R. Capibaribe, Recife: 09.00-04.00
193) ZYT43	1240	1/0.25	R. Cultura, Joinville: 08.00-04.00
194) ZYL4	1250	1	R. Platina, Ituintaba
195) ZYO3	1250	1	R. Chavantes, Ipameri
196) PRJ2	1250	1	R. Clube Pontagrossence, Ponta Grossa
197) ZYR43	°1250	0.25	R. Cacique de Soracaba, Soracaba
164) ZYY20	°1250	1	R. Cultura Caiari, Porto Velho
199) PRA5	1260	10/5	R. America, Campo Grande: 08.30-03.00
200) ZYX27	°1260	1	R. Educacão Rural, Campo Grande
201) ZYR263	1260	1	R. Independencia, São José do Rio Preto
202) ZYS79	1260	1/0.25	R. Atalaia, Londrina
203) ZYG—	1260	10	R. Clube do Piaui, Teresina
204) ZYL21	°1260	5	R. Gazeta de Alagoas, Maceio
205) ZYV65	1260	1/0.25	R. Ibaturuna, Governador Valadares
206) ZYR39	°1270	1	R. Brasil, Campinas
207) ZYX9	°1270	10	R. Brasil Central, Goiania: 08.00-04.00
208) ZYS23	1270	1/0.25	R. Cultura de Maringa, Maringa: 09.00-03.00
209) ZYV62	1270	1	R. Carijos, Conselheiro Lafaite: 09.00-03.00
210) ZYU44	1270	1	R. Clube Metropole, Porto Alegre
211)	1270	1	R. Alvorada de Parintins, Parintins
212) ZYB5	°1270	1	R. Poti, Natal
86) PRG3	°1280	50	R. Tamoio, Rio de Janeiro
214) PRE4	°1300	10/5	R. Cultura, São Paulo
215) ZYR7	°1300	10	R. Iracema de Fortaleza, Fortaleza
216) ZYX22	1300	1	R. Cultura de Cuiaba,
217) ZYS87	1300	5	R. Atalaia, Maringá
218) ZYR264	1300	1/0.25	R. Cinquentenario, Birigui
219) ZYR201	1320	1	R. Direceu de Marilia, Marilia
220) ZYG3	°1320	5	R. Clube de Goiania, Goiania
221) PRH4	1320	1/0.5	R. Dif. Cultura de Pelotas, Pelotas
222) ZYL25	1320	0.25	R. Progreso, Maceió
223) ZYT31	1320	5	R. Herval do Oeste, Joacaba: 09.00-02.00
224) ZYZ34	°1320	10	R. Rio de Janeiro, Rio
225)	1320	1	R. Cultura de Piaui, Teresina
226)	°1320	10	R. Dif. A Voz da Amazonia, Manaus
227) ZYS68	1320	5	R. Cruzeiro do Sul, Curitiba
228) PRI8	°1330	1/0.5	R. Cultura de Araçatuba, Araçatuba
229) ZYV59	1330	1/0.35	R. Operaria de Araxa, Araxa
230) ZYV33	1330	1/0.5	R. Diamantina, Diamantina
231) ZY15	1330	1/0.5	Soc. Educadora de Itajuba, Itajuba
232) PRC4	1330	1/0.5	R. Clube de Blumenau, Blumenau
233)	1330	1/0.5	Empresa Jornal do Comercio, Triunfo
234) ZYE25	1330	10	R. Dif. Liberal, Belém
235) PRH6	°1340	25/5	R. Guarani, Belo Horizonte
236) ZYX2	1340	1/0.25	R. Arapuan, João Pessôa
237) ZYF25	1340	1	R. Gurupi, São Luis
172)	°1340	1	Ceará Radio Clube, Pinheiro
239) ZYX5	1340	1/0.25	R. Soc. Oeste Catarinense, Chapecó
240) PRH5	°1350	5	R. Cultura Poços de Caldas, Poços de Caldas
241) ZYU85	1350	1	R. Guarathan, Santa Maria
242) ZYN37	1350	5	R. Dif. Soc. da Bahia, Itabuna
243) ZYB38	°1350	1	R. Borborema, Campina Grande
244)	1350	1/0.25	R. Estadual, Canoinhas
245) ZYR251	1350	1/0.25	R. Metropolitana Paulista, Mogi das Cruzes
246) ZYO26	1350	1	R. Difusora, Mimoso do Sul
247) PRC8	°1360	10	R. Guanabara, Rio de Janeiro
248) ZYH25	1360	10	R. Uirapuru de Fortaleza,
249) ZYU82	1360	1	R. Alvorada, Marau: 09.00-01.00
250) ZYS86	1360	5	R. Independencia, Curitiba: 24 h
251) ZYR90	1360	5	R. Cultura, Fernandópolis: 09.00-03.00
252) ZYE87	°1370	1	R. Cultura de Araraquara, Araraquara: 09.00-03.00
253) ZYO22	°1370	1	R. Capixaba, Vitoria
254) ZYK31	1370	5	R. Continental do Recife, Recife
255) ZYQ3	°1370	1	R. Dif. Teresina, Teresina
256) ZYF3	1370	5/0.5	R. Emiss. do Nordeste, Caxias do Sul
257) ZYW21	°1370	1	R. Anhanguera, Goiania
258) ZYR212	1370	1	R. Industrial Paulista, São Paulo
259) PRE5	°1390	1	R. Triangulo Mineiro, Uberaba
260) ZYS46	1390	1	R. Tingui, Piraquara
261) ZYJ2	1390	1/0.5	R. Sul Fluminense, Barra Mansa
262) ZYK25	1390	1	R. Dif. de Pesqueira, Pesqueira: 08.55-03.00
263) ZYV49	1390	2	R. Jornal do Minas, Belo Horizonte
264) ZYU75	1390	1	R. Porto Alegre, Porte Alegre
265) ZYN39	1390	1	R. Jornal do Itapetinga, Itapetininga: 08.00-02.00
266) ZYH30	1400	5	R. Educadora de Cariri, Cariri
267) PRD5	°1400	10	R. Roquete Pinto, Rio de Janeiro
268) ZYR225	1400	1/0.25	R. Dif. de Rio Preto, São José do Rio Preto
269) ZYU55	1400	1	R. Emiss. Veranense, Veranópolis: 09.00-01.00
270) PRK6	°1400	1	R. Dif. de Poços de Caldas, Poços de Caldas: 08.30-03.00
271)	1400	1	R. Emiss. Cultural, Rio do Sul
272) ZYS76	1400	5	R. Cruzeiro do Sul, Londrina
273) ZYF21	°1410	1	R. Ribamar, São Luis
274)	°1410	1	R. Educadora de São José, Macapá
275) PRE7	1410	10	R. América, São Paulo: 24 h
276) ZYH26	1410	10	R. Verdes Mares, Fortaleza
277) ZYI4	1420	1/0.25	R. Imbiara de Araxa, Araxa
278) ZYU94	1420	1	R. Triunfo, Porto Alegre
279) ZY17	°1420	5/2.5	R. Guarujá, Florianópolis

Brazil

Call	kHz	kW	Name & h of tr.
280)	1420	1	R. Colonial, Panambi
281) PRE2	1430	10	R. Vera Cruz, Rio de Janeiro
282) ZYG21	1430	1	R. Clube de Teresina, Teresina: 08.00-02.00
283) ZYH5	1430	1/0.25	R. Clube de Tupá, Tupá
284) ZYM21	1430	1	R. Jornal de Sergipe, Aracajú: 10.05-01.30
285) PRB2	°1440	10	R. Clube de Paranaense, Curitiba
23) ZYV29	°1440	5	R. Itatiaia, Belo Horizonte: 24 h
287) PRF6	°1440	1	R. Baré, Manaus
288) PRC5	°1450	10	R. Clube do Pará, Belém: 09.00-03.00
289) PRB4	1450	5/2	R. Clube de Santos, Santos
290) ZYJ20	1450	1	R. Caturite, Campina Grande
291) ZYP36	1450	5/2.5	Campos Difusora, Campos: 09.00-03.00
292) ZYT21	1450	1/0.25	R. Coroados, Curitibanos
293) ZYR249	1450	1	R. Assunção, Jales
294) ZYD9	°1460	0.25	R. Acreano, Rio Branco
295) ZYH22	1460	1	R. Iracema de Fortaleza, Sobral
296) ZYE2	°1460	0.25	R. Dif. Macapá, Amapá
297) PRF2	1460	0.25	R. Clube de Rio Claro, Rio Claro
298) ZYE3	1470	1/0.5	R. Emiss. Convença do Itu, Itu
299) ZYD2	1470	1/0.5	R. Sociedade Muriaé, Muriaé
300) PRC6	°1470	1/0.5	R. Difusora Brasileira, Uberlandia
301) ZYK22	1470	1	R. Liberdade de Caruaru, Caruaru
302) ZYZ6	1470	1	R. Espinhares de Patos, Patos: 08.30-03.00
303)	1470	1	R. Clube Epitaco, Pres. Epitacio
304) PRJ4	°1470	0.5	R. Educadora de Parnaiba, Parnaiba
305) ZYN3	1470	1	R. Progresso, Novo Hamburgo
306)	1470	1	R. Cultura de Volta Redondo, Volta Redondo
307) ZYJ3	°1480	0.5	R. Carajá de Anápolis, Anápolis
308) ZYB20	°1480	1	R. Rio Mar, Manaus: 08.00-04.00
309) ZYH20	1480	1	R. Araripé, Crato
310) PRD3	°1480	5	R. Difusora Petrópolis, Petrópolis
311) ZYE22	°1480	0.25	R. Educadora de Bragança, Bragança
312) ZYL20	°1490	1	Emiss. Rio São Francisco, Penedo
313) PRJ9	°1490	1	R. Timbira, São Luis
314) ZYA2	1490	2	R. Difusora, Corumbá
315) ZYP29	1490	1/0.5	Soc. Emiss. Continental, Campos
316) ZYY5	1510	1	R. Reporter, Ijui
317) ZYG20	1510	0.25/1	R. Difusora de Floriana, Floriano
318) ZYA9	1530	1	R. Difusora, Assis
319) ZYS2	1530	1	R. Jaguariaiva, Jaguariaiva
320) ZYU34	1530	1/0.25	R. Upacarai, Dom Pedrito
321) ZYM9	°1540	1	R. Bragança, Bragança Paulista
322) ZYS9	1540	2.5	R. Novo Horizonte, Novo Horizonte
323) ZYI	1540	2.5	R. Nordeste, Nova Cruz
324) ZYP39	°1550	0.25	R. Clube Fluminense, São João de Meriti
325) PRJ5	°1550	0.25	R. Educadora de Limeira.
326) ZYK—	°1560	1	R. Cultura do Nordeste, Caruaru
327) ZYN33	1560	1	R. Cultura de Santo Amaro, Santo Amaro
328)	°1570	0.25	R. Difusora de Parintins.
329) ZYV39	°1590	0.25	R. Congonhas, Congonhas
330) ZYR44	°1600	0.25	R. Aparecida, Aparecida

STATIONS: Short Waves: *=inactive.

Call	kHz	m	kW	Name & h of tr.
331) ZYB--	2350	127.6	1	R. Dif. Itacoatiara: 10.00-01.00
328)	2360	127.1	0.25	R. Dif. Parintins: 10.00-01.00
326)	2360	127.1	1	R. Cultura do Nordeste, Caruaru: 10.00-24.00

Call	kHz	m	kW	Name & h of tr.
324)	*2370	126.1	0.25	R. Cl. Fluminense, São João de Meriti
325) ZYE78	2380	126.0	0.25	R. Educadora de Limeira: 08.00-03.00
71) ZYV71.	2390	125.5	0.5	R. Por Um Mundo Melhor, G. Valadares: 09.00-03.00
332)	*2390	125.5	0.5	R. Cultura de Monte Alto, Jaboticaba
333)	2400	125.0	1	R. Mossoró: 09.00-03.00
334)	2400	125.0	0.5	R. Dif. de Amparo: 08.30-24.00
274)	2400	125.0	1	R. Educadora São José, Macapá: 08.45-02.00
307) ZYW32	2420	124.0	0.5	R. Carajá, Anápolis: 09.00-01.00
335)	2410	124.1	1	R. Sirena, Leopoldina: 11.00-01.00
336)	2410	124.1	1	R. Emiss. Educacão Rural, Santarem: 09.00-03.00
337)	2420	124.0	0.5	R. São Carlos: 09.00-04.00
338)	2420	124.0	0.25	R. Carolina: 11.00-24.00
239)	*2430	123.5	0.25	Dif. Rio Bonio
228) ZYR231	2450	122.4	0.5	R. Cultura de Aracatuba: 09.00-12.00, 20.00-04.00
197) ZYR99	2470	121.5	0.5	R. Cacique de Sorocaba: 08.00-04.00
340)	2470	121.5	0.5	R. Dif. de Jatai, Jatai: -02.00
321) ZYR--	2480	121.0	1	R. Bragança, Bragança Paulista: 09.00-02.30
40) ZYL23	3245	92.45	1	R. Educ. Palmares de Alagoas, Maceio
131) ZYN62	3255	92.16	0.5	R. Cl. de Marilia: 00.00-02.30
17) ZYH35	3255	92.16	1	R. Assunção Fortaleza: 14.00-17.00, 23.00-03.00
61) ZYR92	3265	91.87	1	R. Ribeirão Preto: 08.00-04.00
83) ZYK21	3265	91.87	1	R. Tamandaré, Recife: 08.00-04.30
175) ZYR31	3275	91.60	1	Bauru R. Clube: 24 h
136)	3285	91.32	1	Emiss. da Educação Rural, Natal: 08.00-02.00
62) ZYV75	3295	91.00	1	R. Educ. de Uberlandia: 09.00-03.00
200) ZYX28	3295	91.00	1	R. Educacão Rural, Campo Grande: 10.00-04.00
30)	3295	91.00	1	R. Cultura de Serguipe, Aracaju
341) ZYH31	*3305	90.77	1	R. Educadora do Cairi, Crato
23) ZYV63	3315	90.50	0.25	R. Itatiaia, Belo Horizonte: 09.00-04.00
204) ZYL21	3315	90.50	1	R. Gazeta de Alagoas, Maceio: 08.55-03.00
342) ZYR220	3325	90.23	0.1	R. Dif. Guarulhos: 09.00-01.00
243) ZYJ21	3325	90.23	1	R. Borborema, Campina Grande: 08.30-03.00
70) ZYR59	3335	89.95	0.5	Vóz do Sertão, Pres. Prudente: 12.00-17.00
148) ZYE24	3335	89.95	1	R. Marajoãra Belém: 09.00-15.00
343)	3345	89.68	1	R. Alvorada de Londrina: 09.00-03.00
300) ZYV30	3355	89.42	1	R. Dif. Brasileira, Uberlandia: 09.00-02.00
42) ZYS45	3365	89.15	0.5	R. Dif. do Paraná, Londrina: 09.00-01.00
114) ZYK28	3375	88.88	1	R. Olinda Pernambuco: 08.00-06.00
282) ZYG22	3385	88.63	0.5	R. Cl. Teresina: 08.00-02.00
3) ZYA41	*3385	88.33	1.5	R. Eldorado, Rio
134)	3395	88.37		R. Clube de Conquista. Vitoria de Conquista
150)	3395	88.37	1	R. Tapuyo de Mossoró: 14.00-16.00, 20.00-22.00
7)	3395	88.37		R. Dif. de Goiânia.
344) ZYF23	4755	63.09	0.1	R. Dif. do Maranhão, São Luis: 09.00-01.00
206) ZYY3	4755	63.09	1	R. Brazil, Campinas: 08.30-04.00
270) PRK6	4765	62.96	1	R. Dif. Poços de Caldas: 08.30-03.00

Call	kHz	m	kW	Name & h of tr.
100) ZYN37	4765	62.96	1	R. Feira de Santana: 07.30-04.00
39) ZYH29	4775	62.84	5	R. Dragão do Mar, Fortaleza: 09.00-01.00
345) ZYR81	4775	62.84	5	R. Progresso de São Paulo: 09.00-01.00
163) ZYV20	4785	62.70	1	R. Cultura Caiari, Porto Velho: 11.00-04.30
273) ZYM8	4785	62.70	0.5	R. Ribamar, São Luiz: 11.00-02.00
125) ZYV25	*4795	62.57	1	R. Cultura de Cambuquira
139) PRI4	4795	62.57	2	R. Tabajara, João Pessoa de Paraiba: 09.00-02.00
37) ZYP27	4795	62.57	0.5	R. Copacabana
329) ZYF37	4795	62.57	1	R. Congonhas: 09.00-03.00
184) ZYS8	4805	62.43	5	R. Dif. de Amazonas, Manaus: 09.00-02.00
310) ZYP33	4815	62.31	1	R. Dif. Petrópolis: 10.00-04.00
215) ZYH27	4815	62.31	1	R. Iracema de Fortaleza: 09.00-03.00
304) ZYE7	4825	62.18	0.5	R. Educadora de Parnaiba: 09.00-12.00, 20.00-01.00
177) ZYV56	4825	62.18	1	R. Cl. de Varginha: 11.00-01.00
259) ZYV37	4835	62.05	0.5	R. Triangulo Mineiro, Uberaba: 09.30-02.30
347) ZYA1	4835	62.05	1	R. Dif. Roraima, Boa Vista: 11.00-16.00, 22.00-03.00
255) ZYU8	4845	61.92	1	R. Dif. Teresina: 11.00-04.00
45) ZYR61	4855	61.79	1	R. Dif. Taubaté: 09.00-03.00
288) PRC5	4865	61.66	2	R. Cl. do Pará, Belém: 09.00-03.00
95) ZYZ30	4875	61.54	1	R. Jornal do Brasil, Rio de Janeiro: 08.30-05.00
162) ZYG26	4885	61.41	1	R. Pioneira de Teresina: 07.45-03.00
294) ZYD9	4885	61.41	1	R. Acreana, Rio Branco: 12.00-02.00
240) ZYV50	4885	61.45	1	R. Cultura de Poços de Caldas: 08.00-04.00
287) PRF6	4895	61.29	5	R. Baré, Manaus: 09.00-11.00, 22.00-03.00
111) ZYN22	4895	61.28	1	R. Bahia, Salvador: 09.00-04.00
15) ZYZ20	4905	61.16	5	R. Relogio, Rio: 24 h
252) ZYR60	4915	61.04	1	R. Cultura de Araraquara: 09.00-03.00
294) ZYE2	4915	61.04	2	R. Dif. Macapá, Amapá: 12.00-01.00
312) ZYL20	4915	60.00	1	Emiss. Rio São Francisco, Penedo: 08.30-03.00
132) ZYV32	4925	60.90	1	R. Industrial de Juiz de Fóra: 09.00-02.00
348) ZYA6	4925	60.90	1	R. Iracema, Sobral: 09.00-02.00
106) ZYR248	*4935	60.80	0.5	Lins R. Clube, Lins
212) ZYI21	4935	60.80	1	R. Poti, Natal: 09.00-03.00
253) ZYO25	4945	60.67	1	R. Capixaba, Vitoria: 10.30-02.00
349) ZYF22	4945	60.67	0.25	R. Dif. Mearim, Caxias de Sul: 11.00-01.00
311) ZYE23	4945	60.67	1	R. Educadora de Bragança: 09.00-01.00
143) PRF7	4955	60.54	2	R. Cultura de Campos: 08.30-15.00, 21.00-02.30 (or 03.00)
164)	4955	60.54	0.25	R. Caiari, Porto Velho: 10.00-03.30
313) ZYV9	4975	60.30	5/2.5	R. Timbira, São Luiz: 12.00-03.00
37) ZYP27	4975	60.30	1	R. Copacabana: 09.00-03.00
330) ZYR89	4985	60.18	1	R. Aparecida: 09.00-03.00
158) ZYZ5	4985	60.18	1.5	R. A. Voz de Oeste, Cuibá: 10.00-02.00
207) ZYX2	4995	60.06	5	R. Brasil Central, Goiania: 08.00-04.00
247) PRC8	*5015	59.80	1	R. Guanabara, Rio de Janeiro
350) ZYX30	5025	59.70	1	R. Dif. de Aquidauana: 12.00-02.00
226)	5025	59.70	1	A. Voz da Amazonia
55) ZYK41	5025	59.70	1/2	Voz de São Francisco Petrolina: 09.00-12.00, 14.00-02.00
257) ZYW22	5035	59.58	1	R. Anhanguera, Goiania: 09.00-04.00
157) ZYO24	5035	59.58	0.5	R. Espirito Santo, Vitoria: 12.00-01.00
352) ZYP23	5045	59.46	1	R. Imperial, Petrópolis: 11.00-01.00
353) ZYX24	5055	59.35	2	R. Cult. de Cuiabá: 11.00-02.00
56) ZYO23	5055	50.35	2	R. Vitoria: 15.00-21.00
82) ZYR226	5955	50.38	7.5	R. Gazeta de São Paulo: 12.00-04.00
47) ZYU60	5965	50.28	7.5	R. Guiaba, Poro Alegre: 18.00-01.00
279) ZYT44	5975	50.21	10	R. Guarujá, Florianópolis: 09.00-03.00
65) PRL5	5990	50.04	10	R. Ministerio da Educação, Rio de Janeiro: 09.00-03.00
80) PRK5	6000	50.00	25	R. Inconfidencia, Belo Horizonte: 09.00-03.00
46) PRA8	6015	49.88	5	R. Cl. de Pernambuco, Recife: 09.00-03.00
171) ZYR63	6025	49.79	7.5	Emiss. Piratininga, São Paulo: 08.00-03.00
170) ZYZ26	6035	49.71	10	R. Globo, Rio de Janeiro: 09.00-03.00
285) ZYS33	6045	49.63	7.5	R. Cl. Paranaense, Curitiba: 08.00-03.00
18) PRB21	6055	49.55	7.5	R. Panamericana, São Paulo: 21.00-03.00
354) ZYZ31	6065	49.46	7.5	R. Rural Brasileira
174) PRL-	6065	49.46	7.5	R. Nacional, Brasilia: 08.00-05.00
60) ZYK2	6085	49.30	10	R. Jornal do Comercio, Recife: 09.00-03.00
96) ZYB7	6095	49.22	25	R. Dif. São Paulo: 09.00-03.00
172) ZYN6	6015	49.14	5	Cerá R. Cl. Fortaleza: 16.00-01.00
86) ZYC7	6115	49.06	100	R. Tamoio, Rio de Janeiro: 09.00-03.00
138) PRG9	6125	48.98	10	R. Nacional, São Paulo: 10.00-03.00
38) PRC21	6135	48.90	10	R.TV Gaucha, Porto Alegre: 09.00-03.00
107) PRL9	6145	48.82	50	R. Nacional, Rio: 08.00-04.00
214) ZYR58	6165	48.66	7.5	R. Cultura, São Paulo: 08.00-04.00
235) ZYV74	6175	48.58	10	R. Guarani, Belo Horizonte: 08.00-04.00
72) ZYR77	6185	48.50	10	R. Bandeirantes, São Paulo: 10.00-03.00
115) PRD21	6195	48.43	7.5	Emiss. Continental: 08.00-04.00
59) PRN9	*9295	32.28	2.5	R. Dif. Departamento Segurança
18) PRB22	9505	31.56	7.5	R. Record, São Paulo: 08.00-21.00
267) PRD5	9515	31.53	7.5	R. Roquete Pinto, Rio: 15.00-24.00
178) ZYZ43	9545	31.43	7.5	R. Emiss. Paranaense, Curitiba: 08.00-21.00
60) ZYK3	9565	31.37	10	R. Jornal do Comercio, Recife: 09.00-02.00
32) ZYR56	9585	31.30	50	R. Excelsior, São Paulo: 09.00-24.00
111) ZYN29	9595	31.27	10	R. Cultura da Bahia: 09.00-04.00
86) ZYC9	9610	31.22	10	R. Tamoio, Rio de Janeiro: 09.00-04.00
2) ZYR97	9620	31.19	10	R. 9 de Julho, São Paulo: 08.00-03.00
330) ZYR83	9635	31.14	7.5	R. Aparecida: 09.00-03.00
171) ZYR64	*9635	31.14	10	R. Piratininga, São Paulo
240) ZYV40	9645	31.10	7.5	R. Cultura de Poços de Caldas: 09.00-03.00
224)	*9665	31.04		R. Rio de Janeiro
174) PRL-	9665	31.04	10	R. Nacional, Brasilia: 08.00-05.00
110) ZYT29	9675	31.01	7.5	R. Diario da Manha, Florianópolis: 10.00-03.00

Call	kHz	m	kW	Name & h of tr.
82) ZYR227	9685	30.98	7.5	R. Gazeta: 12.00-08.00, 22.00-04.00
308) ZYB22	9695	30.94	7.5	R. Rio Mar, Manaus: 12.00-00.00
149) ZYZ24	9705	30.91	10	R. Mauá, Rio de Janeiro: 15.00-04.00
107) PRL8	9720	30.86	50	R. Nacional, Rio: 08.00-04.00
16) ZYU58	9730	30.83	7.5	R. Farroupilha, Porto Alegre: 11.00-03.00
214) ZYR67	9745	30.79	7.5	R. Cultura, São Paulo: 08.00-04.00
207) ZYW23	9755	30.69	7.5	R. Brasil Central: 08.00-04.00
65) PRL4	9770	30.71	10	R. Ministerio da Educacão, Rio de Janeiro: 09.00-03.00
174) PRL-	11720	25.60	10	R. Nacional, Brasilia: 08.00-05.00
220) ZYW28	11735	25.56	7.5	R. Cl. de Goiania: 11.00-03.00
171) ZYR65	11745	25.54	7.5	R. Emiss. Piratininga, São Paulo: 08.00-03.00
96) ZYB8	11765	25.50	25	R. Dif. São Paulo: 09.00-03.00
47) ZYU61	11785	25.46	7.5	R. Guaiba: 21.00-04.00
107) PRI39	11795	25.43	10	R. Nacional, Rio: 09.00-24.00
170) ZYZ36	11805	25.41	10	R. Globo, Rio: 09.00-03.00
207) ZYW24	11815	25.39	7.5	R. Brasil Central, Goiania: 10.00-04.00
60) ZYK32	11825	25.37	10	R. Jornal do Comercio, Recife: 15.00-02.00
46) PRA8	11865	25.28	7.5	R. Cl. Pernambuco: 09.00-03.00
58) ZYN32	11875	25.36	10	R. Soc. da Bahia, Salvador: 17.00-03.00
149) ZYZ25	11885	25.24	10	R. Mauá, Rio de Janeiro: 11.00-24.00
38) PRC23	11915	25.18	7.5	R.TV Gaucha, Porto Alegre: 12.00-03.00
72) ZYR78	11925	25.16	10	R. Bandeirantes: 10.00-03.00
285) ZYS35	11935	25.14	25	R. Cl. Paranaense: 12.00-24.00
65) PRL3	11950	25.10	10	R. Ministerio da Educacão, Rio: 09.00-03.00
18) PRB24	11965	25.07	7.5	R. Record, São Paulo: 12.00-21.00
354) ZYZ32	15105	19.86	7.5	R. Rural Brasileira
6)	15115	19.85	7.5	R. Soc. Guiracá, Curitiba: 21.00-03.00
58) ZYN32	15125	19.83	10	R. Soc. da Bahia, Salvador: 12.00-24.00
18) PRB23	15135	19.82	10	R. Panamericana: 09.00-03.30
60) ZYK33	15145	19.81	10	R. Jornal do Comercio, Recife: 12.00-03.00
96) ZYB9	15155	19.80	25	R. Dif. de São Paulo: 15.00-03.00
172) ZYN7	15165	19.78	5	Ceará R. Clube: 16.00-01.00
355)	*15175	19.76	1	Emiss. Tupanci, Pelotas
111) ZYN30	15180	19.76	10	R. Cultura da Bahia: irr.
80) PRK9	15190	19.75	5	R. Inconfidencia, Belo Horizonte: 09.00-03.00
313) ZYY9	*15215	19.71	2.5	R. Timbira, São Luiz
14) ZYN30	15225	19.71	10	R. Cult. da Bahia: 09.00-04.00
148) ZYE21	15245	19.68	10	R. Marajoara, Belém: 12.00-24.00
138) PRG9	15265	19.66	50	R. Excelsior, São Paulo: 12.00-24.00
82) ZYR228	15325	19.58	5	R. Gazeta de São Paulo: 15.00-03.00
16) ZYU68	15335	19.56	7.5	R. Farroupilha, Porto Alegre: 12.00-24.00
86) ZYC9	15370	19.52	10	R. Tamoio & Tupi, Rio de Janeiro: 09.00-24.00
57) ZYR206	15415	19.46	7.5	R. Cl. Ribeirão Preto: 10.00-03.00
174) ZYN32	15445	19.43	10	R. Nacional de Brasilia: 08.50-05.00
224)	*15445	19.43	50	R. Rio, Rio de Janeiro
2) ZYR96	17705	16.94	10	R. 9 de Julho: 08.00-03.00
356) ZYR232	17725	16.93	1	R. Universitario Santos Dumont, São José dos Campos: 23.00-02.00
184)	17795	16.86	5	R. Dif. de Amazonas: 10.00-01.00
214) ZYR58	17815	16.82	10	R. Cultura, São Paulo: 04.00-01.00
107) ZYZ	17850	16.81	10	R. Nacional, Rio de Janeiro: 08.00-04.00
65) PRL2	17875	16.79	10	R. Ministerio da Educacão, Rio de Janeiro: 09.00-03.00

State Abbreviations: AC = Acre, AL = Alagoas, AM = Amazonas, AP = Amapá, BA = Bahia, CE = Ceará, DF = Brasilia, ES = Espirito Santo, GB = Guanabara, GO = Goiás, MA = Maranhão, MG = Minas Gerais, MT = Mato Grosso, PA = Pará, PB = Paraiba, PE = Pernmabuco, PI = Piaui, PR = Paraná, RJ = Rio de Janeiro, RD = Rondônia, RN = Rio Grande do Norte, RS = Rio Grande do Sul, SC = Santa Catarina, SE = Sergipe, SP = São Paulo.

Addresses & other information:

1) João Pessoa 2, PB.
2) Rua Pinto Ferraz 183, São Paulo, SP. Te: 70-5231. L.P: Dir. Gen: A. Caravina. Dir. Tec: C. A. Schermann. FM: 107.7MHz. V. by letter. Rec. acc.
3) Av. Pres. Vargas 417, Rio de Janeiro, GB.
5) Praça João Pessôa 2, Itabuna, BA. L.P: Dir. Gen: J. Oduque T. Dir. Tec: L. Ferreira J. FM: 106. 1MHz. V. by letter. Rec. acc.
6) C.P. 1053, Curitiba, PR. L.P: Dir: A. R. de Assis.
7) Praça C. Joaquim Lucio 153, Goiânia, GO.
9) Frei Gaspar 116, Santos, SP. L.P: Dir. Gen: C. Barracat. Dir. Tec: M. M. Cordoso. V. by QSL-card. Rp.
10) C.P. 123, Cataguases, MG. Te: 2800. L.P: Dir. Gen: E. C. Penoto. Dir. Tec: F. Mauro. V. by letter. Rec. acc.
13) Visconde do Rio Branco 30, Salvador, BA.
14) C.P. 202, Curitiba, PR. Te: 22-0291. L.P: Dir. Gen: J. L. Seiler B. Dir. Tec: S. Holzmann. FM: 106.5MHz.
15) Av. Prcs. Vargas 417A, Rio de Janeiro, GB. Te: 43-5037. V. by letter or QSL-card.
16) Rua 7 de Setembro 1123, Porto Alegre, RGS. Te: 5177. Cable: Radiofar. L.P: Dir. Gen: N. D. de Oliveira. V. by letter.
17) Visc. Saboya 280, Fortaleza, CE. V. by letter. Rec. acc.
18) Av. Miruna 713, São Paulo, SP. Te: 613667. V. by letter.
19) Praça B. Constant, Cuiabá, MT.
20) Praça da Bandeira 16, Uberaba, MG.
22) J. P. Franco, Aracaju, SE.
23) Rua Coromandel 117, Belo Horizonte, MG. Te: 48595. L.P: Dir. Gen: J. Carneiro. Dir. Tec: W. Arantes. V. by letter. Rec. acc.
24) G. Martins, Santa Maria, RS.
25) C.P. 1474, Porto Alegre, RS. Te: 234953. L.P: Dir. Gen: J. Pagno. Dir. Tec: C. Mattiello. FM: 107. 5MHz. V. by letter. Rec. acc.
26) Praça Pedro II 1016, Natal, RN. Te: 1118. V. by letter. Rec. acc. Rp.
27) Av. Teijo 5334, Araraquara.
28) C.P. 62, Cruzeiro, SP.
29) Esplanada dos Ministerios, Bloco 1, Brasilia, DF. Te: 42-6297. L.P: Dir. Gen: E. Luiz Vienna. V. by letter. Rec. acc. Rp.
30) Simão Dias 643, Aracaju, SE. V. by letter.
31) C.P. 289, Anápolis, GO. L.P: Dir. Gen: J. Mateus de Souza. Dir. Tec: J. Santana. FM: 106.7MHz.
32) Rua da Palmeiras, São Paula, SP.
33) Praça da Bandeira, Limoeiro, PE. L.P: Dir. Gen: F. Pessoa de Queiros.
35) Montes Claros, MG. V. by QSL-card or letter. Rp.
36) Av. Gen. Osório 874, Ribeirão Preto, SP.
37) Av. Rio Branco 277, 6°, Rio de Janeiro, GB. Te: 429960. V. by letter.
38) C.P. 1164, Porto Alegre, RS. Cable: Pioneira. Te: 31822. L.P: Dir: M. Sirotzky S. St. Mgr: J. Sirotzky. D.Prgr: N: 10.00, 15.00, 01.30. V. by letter. Rp.
39) Rua P. Pereira 383, Fortaleza, CE. D.Prgr: N: 14.50, 01.35. V. by letter.
40) Praça D. Pedro II, Maceio. V. by letter.
41) São Paulo 516, Belo Horizonte, MG.
42) C.P. 1870, Londrina, PR. L.P: Mgr: Oliveira Jr.
43) C.P. 60, Lages, SC. L.P: Dir. Gen: C. Joffre A. V. by letter. Rec. acc.
45) Rua V. do Rio Branco 247, Taubaté, SP. Te: 302. L.P: Dir. Gen: E. A. Beringhs. Dir. Tec: A. R. Gonçalves. D.Prgr: N: 14.00. V. by QSL-card. Rec. acc.
46) Av. Cruz Cabuga 394, Recife, PE. Te: 4-1522. Cable: Diarbuco. D.Prgr: N: 00.00, 01.00. V. by QSL-card. Rec. acc. Rp.
47) Rua Galdas Jr. 219, Porto Alegre, RS. D.Prgr: N: 10.00, 16.00, 22.50, 02.00. V. by Letter. Rec. acc.
48) O. Maciel 540, Uberlandia, MG.
49) Rua Coromandel 117, Belo Horizonte, MG.

52) C.P. 71, Tubarão, SC. L.P: Dir: M. G. de Silva C. Dir. Tec: R. Ghizoni. V. by letter. Rec. acc.
53) Praça da Liberdade 61-7°, São Paulo, SP.
54) C.P. 934, Curitiba, PR. L.P: Dir: T. de Maceio. Dir. Tec: J. A. Chicoski. FM: 103.1MHz. V. by letter. Rec. acc.
55) Praça Maria Auxilidadora 401, Petrolina, PE. L.P: Dir. Gen: P. Mansueto de Lavor. Mgr: A. Pereira P. D.Prgr: N: 15.30, 20.30, 22.00, 00.00. FM: 106.3MHz. V. by QSL-card and letter. Rec. acc.
56) Praça Costa Pereira 132, Vitoria, ES. Te: 3406. Cable: Ravito. V. by letter. Rp.
57) C.P. 18, Ribeirão Preto, SP. Te: 2879. L.P: Dir. Gen: J. Laureano. St. Mgr: M. Simões Filho. Dir. Tec: W. L. Perin. V. by letter.
58) Rua Carlos Gomes 57, Salvador, BA. Te: 3-3521. Cable: Gremio. V. by letter. Rp.
59) Departamente de Segurança Nacional, Rua da Relação, Rio.
60) Av. Imperador Pedro I, 346, Recife, PE. V. by QSL-card.
61) C.P. 814, Ribeirão Preto, SP. Te: 3377. L.P: Dir. Gen: A. Agnellos. Dir. Tec: J. Onofre A. V. by letter. Rec. acc.
62) C.P. 401, Uberlandia, MG. Te: 2340. L.P: Dir: M. Lopes de Carvalho. Dir. Tec: F. J. Silva de Carvalho. V. by letter. Rec. acc.
63) Santa Tereza 20, São Paulo, SP. L.P: D. Masci de Abreu. Dir. Tec: M. Martins. FM: 93.6MHz. V. by letter. Rec. acc. Rp.
64) Av. Marechal Floriano 38, Porto Alegre, RS.
65) Ministerio da Educação e Cultura, Praça da República 141-A, Rio de Janeiro, GB. L.P: Dir. Gen: E. Luiz Vienna. Dir. Tec: H. Camaro S. FM: 98.9MHz. Rec. acc. V. by letter. Rp.
66) Av. A. Ramos 42, Rio Sul, SC.
67) Av. Ana Costa 254, Santos, SP.
70) C.P. 5, Pres. Prudente, SP. L.P: Dir. Gen: A. Campos.
71) C.P. 377, Governador Valadares, MG. Te: 5322. Cable: Repumm. V. by letter. Rp.
72) C.P. 372, São Paulo, SP. Te: 282-1411. Cable: Radiantes. L.P: Dir. Gen: S. Razuk. Dir. Tec: E. da Paz Liborio. FM: 96.1MHz. V. by QSL-card or letter. Rec. acc. Rp.
73) G. Brito 14A, Salvador, BA.
74) Rua 24 No. 20, Goiânia, GO.
75) C.P. 11, Concordia, SC.
76) Cel. Vic. 456, Porto Alegre, RS.
77) Av. Otávio Lanartiné 603, Caicô, RN.
78) Av. Paraná 437, Londrina, PR.
79) Av. Rio Branco 181, Rio, GB.
80) C.P. 1027, Belo Horizonte, MG. Te: 21589. V. by QSL-card or letter. Re. in E.
81) Andradas, Porto Alegre, RS.
82) Av. Paulista 900,4° andar, São Paulo, SP. Te: 355151. Cable: Radigazeta. L.P: Dir. Gen: I. F. de Campos. St. Mgr: J. F. Jorge. Dir. Tec: J. da Costa Oliveira. Dir. Tec: (TV): C. Paiva. D.Prgr: N: 15.00, 19.00, 01.30 also every h on the h. V. by QSL-card.
83) Av. Cruz Cabugá 394, Recife, PE. Te: 4-1522. Cable: Diarbuco. V. by letter. Rp.
85) Rua J. Pessoa 86, Natal, RN. L.P: Dir: R. G. dos Wanderley M. Dir. Tec: F. Severo. D.Prgr: N: 11.30, 21.05. FM: 105.5MHz. V. by letter. Rec. acc. Rp.
86) Av. Venezuela 43, Rio de Janeiro, GB. Te: 43-1309. L.P: Dir. Gen: A. Nogueira. Dir. Prgr: R. Rezende. V. by letter. Rp.
89) Praça Barão do Rio Branco 128, Ponta Grossa, PR.
90) Brasil Acioli 28, Araguari, MG.
92) Rua Riachuelo 66, São Vicente, SP.
93) J. Loureiro 464, Curitiba, PR.
94) Erechim, s/n°, Aratiba, RS.
95) Av. Rio Branco 110/112, Rio de Janeiro, GB. Te: 2221818. Cable: Jorbrasil. L.P: Dir. Gen: C. Pereira C. Dir. Tec: W. Cabral X. D.Prgr: N: W every half h 09.30-21.30, 23.30, 00.30, 03.30, Sun: every half h 09.30-16.30, 20.30, 21.30, 23.30, 00.30, 03.30. V. by QSL-card. Rec. acc.
96) C.P. 252 & 4142, São Paulo, SP. V. by QSL-card.
97) P. Monteiro 108, Maceió.
98) C.P. 89, Passo Fundo, RS.
99) Av. São Paulo 167, Belo Horizonte, MG.
100) C.P. 32, Feira de Santana. Te: 168. L.P: Dir. Gen: F. A. Bezerra Lobô. Dir. Tec: D. Nogueira. V. by letter. Rec. acc. Rp.
101) Av. Dom José 783, Sobral, CE.
102) Pres. J. Pessôa 26, Currais Novos, RN.
103) Rua Venâncio Aires 1980, Santa Maria, RS. L.P: Dir. Gen: S. Isaia. V. by letter.
104) Santa Luzia 391, Juazeiro do Norte, CE.
105) Praça Napoleão Moreira da Silva 155, Maringa, PR.
106) Rua Luiz Gama 492, Lins, SP. L.P: Dir: A. Zago.
107) Praça Maua 7, 19-22° andar, Rio de Janeiro, GB. Te: 438850. L.P: Dir. Gen: P. T. Gomes. Dir: S. Vasconcellas. Dir. Tec: J. Nicolay. D.Prgr: N: Every h on the h. V. by letter and/or QSL- card.
109) Barão de S. João Nepomuceno 197, Juiz de Forá, MG.
110) C.P. 331, Florianópolis, SC. L.P: Dir. Gen: E. S. de Almeida. Dir. Tec: L. Bruno. D.Prgr: N: 09.00, 10.25, 11.00, 12.30, 15.00, 16.00, 17.30, 20.00, 21.50, 24.00, 01.05, 02.45. V. by QSL-card. Rec. acc.
111) Av. Euclides da Cunha 10, Salvador, BA. Cable: Radiocultura. L.P: Gen. Mgr: J. R. Rocha. St. Mgr: M. M. da Silva. V. by letter. Rp. Rec. acc.
112) C.P. 2222, Curitiba, PR. L.P: Dir. Gen: G. Cadamuro. Dir. Tec: J. M. Carneiro S. FM: 98. 7MHz 1kW. V. by QSL-card. Rec. acc.
113) Campos 2087, São José de Rio Preto, SP.
114) C.P. 1313, Recife, PE. Te: 45373. Cable: Radiolinda. V. by letter. Rp.
115) Rua Riachuelo 48, Rio de Janeiro, GB.
116) Rua Catalão 48, São Paulo, SP.
117) Riachuelo 48, Rio de Janeiro, GB.
118) São Bento 253, Sorocaba, SP.
122) Praça G. Vargas 74, Nova Friburgo.
123) Sarmento Leite 426, Porto Alegre, RS.
124) Rio de Janeiro 430, Belo Horizonte, MG.
125) Av. Verglio Franco 375, Cambuquira, MG.
126) C.P. 111, Caruaru, PE.
128) Praça V. A. Joaquim 39, Mossoró, RN.
129) Av. Anhanguera 130, Goiânia, GO.
130) Travessa Frutuoso Guimarães 348, Belém, PA.
131) Rua Paes Leme 20, Marilia, SP. V. by letter.
132) C.P 262, Juiz de Forá, MG. L.P: Dir. Gen: Dr. S. V. Mendes. D.Prgr: N: 12.00, 15.10, 20.00, 22.30, 00.30. V. by letter.
133) C.P. 25, Joinville, SC.
134) Praça Barão do Rio Branco 18, Vitoria da Conquista, BA. V. by letter.
135) Américo Brasiliense 414, Ribeirão Preto, SP.
136) Praça Pio X 335, Natal, RN. V. by letter.
138) Rua das Palmeiras 315, São Paulo, SP. L.P: Dir. Gen: F. Abreu. Dir. Tec: G. Rabenhorst. FM: 90.5MHz 1kW. V. by QSL-card. Rec. acc.
139) Rua Rodriguez de Aquino 38, João Pessoa, PB. D.Prgr: N: 21.45, 24.00, 01.35. V. by letter.
142) Barão do Cêrro Azul 874, São Josédos Pinhais, PR.
143) C.P. 79, Campos, RJ. Te: 1582. L.P: Dir. Gen: M. F. Sampaio. D.Prgr: N: 09.45, 19.30. V. by letter. Rec. acc. Rp.
144) Afonso Pena 516, Araguari, MG.
145) Coromandel 117, Belo Horizonte, MG.
147) Rua Andradas 1155, Porto Alegre, RS.
148) Travessa Campos Sales 100, Belém, PA. Te: 3422. Cable: Provan. V. by letter. Rp.
149) Ministerio de Trabalho, Av. Pres. Antonio Carlos 251, Rio de Janeiro, GB. Te: 325399. V. by letter. Rp. Rec. acc.
150) C.P. 60, Mossoró, RN. Te: 476. L.P: Dir: J. Arimatéia de Lima. Dir. Tec: C. Alberto. V. by letter. Rec. acc.
151) Av. do Estado 3163, Sobreloja, São Paulo, SP. V. by letter. Rp.
152) C.P. 61, Blumenau, SG.
153) C.P. 409, Aracaju, SE. Te: 31-14. L.P: Dir. Gen: P. Vieira A. Dir. Tec: A. Rodrigues S. Mgr: J. Ribeiro N.
154) Matias do Albuquerque 260, Recife, PE.
157) C.P. 80, Vitoriá, ES. L.P: Dir: H. Blachman.
158) C.P. 126, Cuiaba, MT. L.P: Dir: J. Oliveira.
159) C.P. 83, Campina Grande, PB.
161) Av. Pres. Vargas, Pato Branco, PR.
162) Rua Teodoro Pachecho 1179, Teresina, PI.
163) C.P 104, Porto Velho, RD. Te: 272. L.P: Dir. Gen: V. Hugo. Mgr: I. Vilhena. Dir. Tec: F. Barbosa. FM: 106.1MHz. V. by letter. Rec. acc.
164) C.P. 104, Porto Velho, RD. Te: 272. L.P: Dir. O. C. Vilhena. Dir. Tec: F. O. Barbosa. V. by letter. Rec. acc.
165 A. Fernandes 259, Morossó, RN.
166) Av. F. Glicerio 957, Campinas, SP. V. by QSL-card or letter. Rp.
167) C.P. 69, Candelaria, RS.
170) Rua Irineu Marinho 35, Rio de Janeiro, GB. Te: 232-4233. L.P: Dir: A. Queiroz. Dir. Tec: D. S. Ferreira. D.Prgr: N: Every h on the h. FM: 92.5MHz. V. by QSL-card. Rec. acc. Rp.
171) C.P. 8087, São Paulo, SP. Te: 334175. V. by QSL-card.
172) C.P. 222, Fortaleza, CE. Te: 1-3125. Cable: Prenove. V. by letter. Rp. (1340kHz Pinheiro, MA).
173) Coronel Fernando Machado 73, Porto Alegre, RS. Te: 240361. L.P: Dir. Gen: N. dos Santos. Dir. Tec: P. Soterio. FM: 105.9MHz. V. by letter. Rec. acc.
174) C.P. 1472, Brasilia, DF. L.P: Dir. Gen: A. Maciel P. Mgr: D. Fontinate. Dir. Tec: R. Briggs. Int. Secr: L. Toledo. V. by letter. Rec. acc. Rp. 5 IRC's.
175) C.P. 866, Bauru, SP. L.P: Dir, Gen: J. R. Aquilino. Dir. Prgr: C. Gonçalves. V. by QSL-card.
176) Sete de Setembro 2, Cachoeira de Itapemirim, ES.
177) C.P. 102, Varginha, MG. Te: 2862. L.P: Dir. Gen: F. de Sousa Pinto. St. Mgr: S. Sampaio. Dir. Tec: O. C. Corsino. D.Prgr: N: 14.30, 21.30. V. by letter. Rec. acc.

178) C.P. 471, Curitiba, PR. Te: 41393. V. by QSL-card.
182) C.P. 157, Bagé, RS.
183) Rua Santana 2676, Uruguaiana, RS. Te: 217. L.P: Dir. Gen: A. Petró. V. by letter. Rec. acc. Rp.
184) Rua Joaquin Sarmento 100, Manaus, AM. Te: 2-3638.
186) Rua Dr. Vicente Machado 1068, Guarapuava, PR. L.P: Dir. Gen: A. Lustosa O. Dir. Tec: J. Knipell. V. by letter.
187) Marechal Deodoro 220, Franca, SP.
188) Av. W3, Brasilia, DF. Te: 2-6883. L.P: Pres: P. B. de Carvalho.
189) 15 de Novembro 717, Pelotas, RS.
190) C.P. 336, Joinville, SC. L.P: Dir. Gen: R. Gregorio da Silva. Dir. Tec: W. Hoerning. V. by letter. Rec. acc.
191) Av. Newton Prado, Pres. Prudente.
192) Rua Siqueira Campos 259, Recife, PE. Te: 4-3270. L.P: Dir. Gen: M. Vita & A. M. Pinto, Dir. Tec: O. Sihler. V. by QSL-card. Rec. acc.
193) C.P. 336, Joinville, SC.
194) C.P. 110, Ituintaba, MG.
195) Praça da Liberdade 13, Ipameri, GO.
196) C.P. 114, Ponta Grossa, PR.
197) Rua 7 de Setembro 301, Socoraba, SP. Te: 23712. V. by letter. Rec. acc.
199) Rua 14 de Julho 1482, Campo Grande, MT. L.P: Mgr: A. Guerra.
200) Rua 14 de Julho 1482, Campo Grande, MT. Te: 2691. L.P: Dir. Gen: A. Barbosa. Dir: A. Guerra. Dir. Tec: C. A. Scherman. V. by letter.
201) B. Campos 3180, São José do Rio Preto.
202) C.P. 1260, Londrina, PR.
204) Rua do Comércio 515, Maceio. Te: 4139.
205) Av. Minas Gerais 976, Governador Valadares, MG.
206) C.P. 625, Campinas, SP. Te: 95570. V. by letter or QSL-card. Rec. acc. Rp.
207) C.P. 330, Goiania, GO. Te: 6-2555. L.P: Dir. Gen: I. H. de Castro. Dir. Tec: J. J. Fleuric. V. by letter. Rec. acc.
208) Av. Getulio Vargas 261, Maringá, PR. Te: 1443. L.P: Dir. Gen: J. Dutra. Dir. Tec: E. Ornaghi. FM: 97.3MHz. V. by letter. Rec. acc.
209) Praça G. Vargas 81, Conselheiro Lafaite, MG. Te: 356. L.P: Dir. Gen: A. Ganime. V. by letter. Rec. acc.
210) Av. Pres. Roosevelt 1406, Porto Alegre, Rs.
211) Trav. Macurany 503, Parintins, AM.
212) C.P. 145, Natal, RGN. Te: 2582. Cable: Radio Poti. V. by letter. Rec. acc.
214) Rua 7 de Abril 230, São Paulo, SP. Te: 34-4181.
215) C.P. 578, Fortaleza, CE.
217) Av. D. de Caixas 350, Maringá, PR.
218) Rua João Galo 94, Birigui, SP.
219) Dom Pedro 156, Marilia, SP.
220) C.P. 62, Goiânia, GO. Te: 6-6042. Telex: 285. Cable: Folhago. V. by letter. Rp.
221) C.P. 268, Pelotas, RS.
223) C.P. 370, Joaçaba, SC. V. by QSL-card. Rec. acc.
224) Av. Rio Branco 277, Rio de Janeiro, GB.
227) Rua B. do Rio Branco 167, Curitiba.
228) C.P. 246, Aracatuba, SP. Te: 2270. Cable: Radiocultura. L.P: Dir. Gen: N. Fares. St. Mgr: M. P. Campos. Dir. Tec: F. C. Arroyo. D.Prgr: N: 13.00, 15.15, 23.45. V. by letter. Rec. acc.
229) Maciel 226, Araxa, MG.
232) C.P. 61, Blumenau, SC.
234) Santo Antonio 491, Belém, PA.
235) C.P. 140, Belo Horizonte, MG. Te: 2-2445. Cable: Radio Guarani. V. by QSL-card. Rp. Rec. acc.
236) D. de Caxias 550, João Pessôa, PA. (reported on 1335kHz).
237) Av. Pena 46, São Luis, MA.
240) C.P. 143, Poços de Caldas, MG. L.P: Dir. J. B. Rocha. V. by letter or QSL-card. Rp. preferred.
241) Dr. Bozano 1380, Santa Maria, RS.
242) C.P. 19, Itabuna, BA.
243) C.P. 160, Campina Grande, PB. Te: 1960. L.P: Dir. Gen: H. P. de Campos. Dir. Tec: J. C. de Albuquerque. D.Prgr: N: 10.00, 15.00, 15.45, 20.35, 01.00. V. by letter. Rp. Rec. acc.
245) Praça D. F. Santana 21, Mogi das Cruzes.
246) Coronel P. Gonçalves, Mimoso do Sul, RS.
247) Av. Treze de Maio 23, Rio de Janeiro, GB. Te: 32-8199. Cable: Radioguan. L.P: Dir. Gen: J. J. Saad. St. Mgr: D. Tanus. Dir. Tec: M. O. Manus. D.Prgr: 09.00-06.00. N: 12.55, 16.25, 17.25, 18.25, 19.55, 21.55, 01.55, 03.00. V. by letter. Rp. Rec. acc.
248) C.P. 740, Fortaleza, CE.
249) C.P. 10, Marau, RS. V. by letter.
250) Rua Voluntaries de Patria 475, Curitiba.
251) C.P. 173, Fernandópolis, SP.
252) C.P. 22, Araraquara, SP. Te: 2828. L.P: Dir. Gen: R. Lupo. Mgr: J. A. Quirino dos Santos. D.Prgr: N: 11.30, 14.30, 23.00. V. by letter. Rec. acc. FM: 97.3MHz.
253) Escadaria São Brento 25, Vitoria, ES. V. by letter.
254) Rua Palma 167, Recife, PE.
255) Rua Areolino de Abreu 1101, Teresina, PI. Te: 316. Cable: Radiodifusora. V. by letter. Rp.
256) Av. Julio de Castilhos 1576, Caxias do Sul. RS.
257) C.P. 7, Goiania, GO. Te: 6-1855. Cable: Radite. L.P: St. Mgr: T. J. da Câmara. Dir. Tec: J. W. Schmaltz. D.Prgr: N: Every h. V. by letter.
258) Rua Butanta 128, São Paulo, SP.
259) C.P. 38, Uberaba, MG.
261) C.P. 19, Barra Mansa, RS.
262) Av. Dr. Jm. de Brito 427, Pesqueira, PE.
265) Rua 7 de Setembro 103, Itapetinga, BA. Te: 1010. L.P: Dir. Gen: J. Silvano da Fonseca. FM: 106.1HMz.
267) Av. Erasmo Braga 118, Rio de Janeiro, GB. Te: 31-1264. V. by letter. Rec. acc.
269) C.P. 27, Veranópolis, RS. Te: 73. L.P: Dir. Gen: J. Gradaschi. V. by letter. Rec. acc.
270) Praça P. Sanchez 45, Poços de Caldas, MG. Te: 2260. L.P: Dir. Gen: C. A. Schermann. V. by QSL-card. Rec. acc.
272) Av. Senador S. Naves 155, Londrina.
273) Rua do Apium 118-130, São Luiz, MA.
274) Rue Leopoldo Machado, Macapá, AP.
275) Rua Pinto Ferraz 183, São Paulo, SP. Te: 70-0953. L.P: Dir. Gen: D. Vieira C. FM: 94. 5MHz. V. by QSL-card. Rec. acc.
276) C.P. 851, Fortaleza, CE.
277) C.P. 19, Araxá, MG.
278) Cel. Vic. 456, Porto Alegre, RS.
279) C.P. 45, Florianópolis, SC. V. by QSL-card.
281) Rua Buenos Aires 168, Rio, GB.
282) C.P. 209, Teresina, PI. Te: 650. L.P: Dir. Gen: V. Alencar. Dir. Tec: S. Benjamin (for corresp: C.P. 633 ZC-00, Rio de Janeiro, GB). V. by letter. Rec. acc.
283) C.P. 39, Tupá, SP.
284) Av. Rio Branco 22, Aracajú, SE. Te: 25-88. L.P: Dir. Gen. J. Silveira L. Dir. Tec: P. Apostólo J. V. by letter. Rec. acc.
285) C.P. 448, Curitiba, PR. Te: 4-4377. Cable: Bedois. L.P: Dir: P. A. Schwab. Dir. Tec: J. Brito. V. by QSL-card. Rec. acc.
287) Av. Eduardo Ribeiro 566, Manaus, AM. Te: 1135. L.P: Dir. Gen: E. C. Barahuna. V. by letter. Rp.
288) C.P. 533, Belém, PA. Te: 3263. L.P: Dir. Gen: E. Paiva Proença. St. Mgr: L. Penalber. Dir. Tec: W. Assunçao S. Dir. Prgr: J. Duarte. V. by letter. Rec. acc.
289) J. Cabalero 60, Santos, SP.
290) Peregrino de Carvalho 321, Campina Grande.
291) Rua Carlos Lacerda 52, Campos, RJ.
292) C.P. 33, Curitibanos, SC.
294) Departamento do Imprensa e Radiodifusão do Acre, Rio Branco.
295) Praça M. Linhares, Sobral, CE.
296) Av. Candido Mendes, Macapá, AP. L.P: Dir: A. Nogueira de Sousa. D.Prgr: N: Every h on the h and W 21.30. V. by letter.
297) Treis 1423, Rio Claro, SP.
298) F. Piexoto 1386, Itu, SP.
299) Praça J. Pinheiro 10, Muriaé, MG.
300) C.P. 173, Uberlandia, MG. Te: 4466. Cable: Radioco. D.Prgr: N: 13.30, 20.00. V. by letter.
301) Rua de Conceição 16, Caruaru, PE. Te: 2470. L.P: Dir: J. de Lacerda. V. by letter.
302) Rua Barbosa 515, Patos, PB. L.P: Dir. Gen: J. de Assis F. V. by letter. Rec. acc.
304) Praça Santo Antonio 880, Parnaiba, PI. Te: 1199. D.Prgr: N: 14.55, 23.30. V. by QSL-card and letter. Rec. acc.
305) Av. P. A. Filho, s/n°, Novo Hamburgo, RS.
307) C.P. 909, Anápolis, GO. Te: 2263. V. by letter.
308) C.P. 443, Manaus, AM. Te: 2-3560. Cable: Emissora. L.P: St. Mgr: P. T. de Souza Brás. Dir. Tec: F. Bezerra. V. by QSL-card. Rec. acc.
309) Nelson de Alenear 90, Crato, CE.
310) Praça D. Pedro II° 17, Petropólis, RJ. Cable: Difusora. L.P: Dir. Gen: W. Carneiro Malta. D.Prgr: N: 16.00, 23.25, 01.05, 02.45. V. by letter.
311) Rua Dr. Candido Rodrigues 87, Bragança, PA. Te: 112. D.Prgr: N: 09.55, 10.55, 11.55, 19.55, 24.00. V. by letter.
312) C.P. 4, Penedo, AL. L.P: Dir. Gen: J. Eleutério dos Santos. Dir. Tec: J. C. de Saboia. V. by letter. Rec. acc. Rp.
313) Edif. Matos Carvalho 3° andar, São Luiz, MA. Te: 1160.
314) Rua Treze de Junho 899, Corumbá, MT.
315) Treze de Maio 49, Campos, RJ.
316) C.P. 73, Ijui, RS.
318) C.P. 410, Assis, SP.
319) Vila N. Sa. de Fátima, Jaguariaiva, PR.
320) Coronel Demétrio 71, Dom Pedrito, RS.
321) Rua Dr. Candido Rodriguez 87, Bragança Paulista, SP. V. by letter. Rec. acc.
322) C.P. 5, Novo Horizonte, SP.

324) Rua Francisco da Rosa 84, São João de Miriti, RJ.
325) C.P. 105, Limeira, SP.
326) Rua do Expeditionario 30, Carauru, PE.
329) Praça de Basilica, Congonhas, MG. Te: 38. V. by letter.
330) Praça NS Aparecida 315, Aparecida. Te: 2197. L.P: Dir. Gen: V. Coelho de Almeida. St. Mgr: S. de Neme Jorge. V. by QSL-card. Rp. Rec. acc. 2 IRC's requested for QSL.
331) Itacoatiara, AM.
332) Rua R. Rocha Medeiros 1113, Monte Alto, Jabotical.
333) Mossoró, Pra. Rafael Fernandes, RN.
334) C.P. 77, Amparo, SP.
335) C.P. 6, Leopoldina, MG. V. by letter.
337) C.P. 95, São Carlos, SP. V. by letter.
338) Av. Pedro II, 220, Cuiz, MA.
339) Av. 1° de Maio 27, Rio Bonito, RJ.
340) C.P. 33, Jatai, GO. L.P: Mgr: P. Antonio Carvalho. V. by letter.
341) C.P. 57, Crato, CE. L.P: Pres: V. de Araujo Matos.
342) Rua Pedro II, 148, Guarulhos. L.P: Dir: P. C. Nogueira.
343) C.P. 414, Londrina, PR. Te: 1842. V. by letter. Rp.
344) C.P. 152, São Luiz, MA. V. by letter.
345) Av. Liberdade 1034, São Paulo, SP. Te: 32-8708.
347) C.P. 171, Boa Vista, RS. Cable: Radiodaima.
348) Praça Monsenhor Linhares, Sobral, CE.
349) Praça Candido Mendez 374A, Caxias, MA.
350) Rua Estvão a correa 478, Aquidauana, MT.
352) C.P. 225, Petropolis, RJ. L.P: Dir: N. Paiva.
353) Guiaba, MT. L.P: Dir: V. D. Cezar.
354) Ministerio da Agricultura, Largo da Misericordia 4°, andar, Rio de Janeiro, GB. V. by QSL-card.
355) Rua 15 Novembro 707, Pelotas, RS.
356) R.U.S.D. — I.T.A, São José dos Campos, SP. Te: 450. L.P: Dir. Gen: M. R. Cherubini. Dir. Tec: M. F. Gonzales V. by letter. Rec. acc. Rp.

CHILE

L.T: GMT — 4 h — Pr.L: Spanish — E.C: a/c 50 (yes).

ASOCIACION DE RADIODIFUSORAS DE CHILE (ARCHI)

ADDR: Cas. 10476, Santiago de Chile. Te: 34509. Cable: Archi.

STATIONS: SW: Call letter CE are used for all zones.
MW: Call letters CA, CC and CD indicate: A = No. Zone, B = Central Zone, C = So. Zone and D = Antarctic Zone. The figures indicate the freq. in kHz minus one cipher, f. inst. CB82 = Central Zone 820kHz. St's not associated with ARCHI: 13), 14), 16), 17), 26), 40), 46), 60), 66), 76), 90), 94), 98), 123), 127), 130), 132).
Medium Waves: ° = Short Wave.

Call	kHz	kW	Name and location
1) CB54	540	1	R. Ignacio Serrano
2) CD54	540	1	R. Sur, Valdivia
3) CB57	°570	50	Soc. Nac. de Agricultura, Santiago
4) CA59	590	1	R. Mineria, Antofagasta
5) CC59	590	1	R. Cooperativa, Concepción
6) CA62	620	1	R. Norte Verde, Ovalle
7) CC62	660	10	Nueva Radio el Sur, Concepción
8) CB63	630	1	R.I.E.M. Santiago
9) CA63	630	0.1	R. Chañaral, Chañaral
10) CB63	630	1	R. Presidente Prieto, Valparaiso
11) CC63	630	1	R. Constitución, Constitución
12) CD63	630	1	R. CD-43, Angol
13) CA64	640	1	R. Esmeraldas, Iquique
14) CD64	640	1	R. Cooperativa, Temuco
15) CB66	660	50	Nueva Radio Chilena, Santiago
16) CC68	°680	10	R. Universidad de Concepción,
17) CB69	690	10	R. Santiago, Santiago
18) CA73	730	1	R. Mulchen, Mulchen
19) CB73	°730	10	La Voz de Chile, Valparaiso
19) CB76	°760	75	La Voz de Chile, Santiago
20) CA78	°780	1	R. Libertad, Antofagasta
21) CB78	780	1	R. Caupolican, Valparaiso
22) CD78	780	10	R. Sago, Osornó: 11.00-04.00
23) CA82	820	0.25	R. Pampa, Puerto de Valdivia
24) CB82	820	1	R. del Pacifico, Santiago: 24 h
25) CC82	820	1	R. Almirante Latorre, Talcahuano
26) CD82	820	1	R. Concordia, La Union
27) CB84	840	10	R. Portales, Valparaiso: 10.30-05.00
28) CB84	840	1	R. Recreo, Viña del Mar: 11.00-04.30
29) CD84	840	1	R. Llaima, Curacautin
30) CB89	890	5	R. Bulnes, Santiago
31) CC89	890	1	R. Interamericana, Concepción: 11.30-04.00
32) CD89	890	1	R. Polar, Punta Arenas
33) CA90	900	1	R. Universiad Técnica Copiapo
34) CC90	900	1	Nueva R. Nuble, Chillan
35) CD90	900	1	R. Rahue, Rahue
36) CD91	910	1	R. Escuela, Osorno
37) CB93	°930	10	R. Nuevo Mundo, Santiago
38) CB96	960	10	R. Carrera, Santiago
39) CD96	960	1	R. Nielol, Temuco
40) CA97	°970	1	R. Calama, Calama
41) CB97	970	1	R. Soc. Nac. de Agricultura, Valparaiso
42) CC97	970	1	R. Lautaro, Talca
43) CD97	970	1	R. Patagonia, Coyhaique
44) CA101	1010	0.25	R. Coya, Maria Elena
45) CB101	1010	10	R. Magallanes, Santiago
46) CD101	1010	1	R. Llanquihue, Puerto Montt
47) CB103	°1030	1	R. Valentin Letelier, Valparaiso: 17.00-19.00, 23.00-03.00
48) CD103	1030	1	R. Chiloe, Castro: 11.55-04.00
49) CD103	1030	1	R. Payne, Puerto Natales
50) CD103	1030	1	R. La Frontera, Temuco
51) CB106	°1060	100	R. Soc. Nac. de Mineria, Santiago
52) CD108	1080	1	R. Camilo Henriquez, Valdivia
53) CA109	1090	1	R. La Portada, Antofagasta
54) CA109	1090	1	R. Occidente, La Serana
55) CB109	1090	1	R. Candelaria, Santiago
56) CC109	°1090	1	R. Mineria, Talca
57) CD109	1090	1	R. Mineria, Punta Arenas
58) CC111	1110	0.1	R. El Roble, Parral
59) CD112	1120	1	R. General Marchant, Puerto Aysen
60) CB114	°1140	50	Corp. Chilena de Broadcasting, Santiago
61) CB118	°1180	50	R. Portales, Santiago
62) CA120	1200	1	R. Blanco Encalada, Tocopilla
3) CD120	°1200	1	R. Soc. Nac. de Agricultura, Los Andes
63) CB121	°1210	1	R. Universidad Técnica del Estado, Santiago
64) CD121	1210	1	R. Presidente Ibañez, Punta Arenas
65) CA124	1240	1	R. del Salitre, Iquique
66) CB124	1240	1	R. Viña del Mar, Viña del Mar
67) CC124	1240	1	R. Talca, Talca
68) CA125	1250	1	R. La Serana, La Serana
69) CB125	1250	1	R. Andres Bello, Santiago
70) CD125	1250	1	Universitario Técnico del Estado Valdivia
71) CA126	°1260	10	El Morro, Arica: 11.00-05.00
72) CA127	°1270	1	R. Norte, Antofagasta
51) CB127	°1270	10	R. Soc. Nac. de Mineria, Viña del Mar
73) CD127	1270	0.25	R. Univ. Técnica, Temuco
74) CB130	°1300	10	Emis. Presidente Balmaceda, Santiago
75) CA130	1300	0.25	R. Estrella del Norte, Vallenar
76) CC132	1320	10	R. Simon Bolívar, Concepción
77) CB133	1330	2	R. Prat, Santiago
78) CB133	1330	1	R. Panamericana, Santiago
79) CD133	1330	1	R. Vincente Perez Rosales, Puerto Montt
80) CA134	1340	0.25	R. Toco, Tocopillo
81) CB134	1340	1	R. Porteña, Valparaiso
82) CC134	1340	1	R. La Discusion, Chillan
83) CD135	1350	1	La Voz del Sur, Punta Arenas
84) CD135B	1350	1	R. Pudeto, Ancud
85) CD135	1350	1	R. Imperial, Temuco
86) CA135	1350	1	R. Riquelme, Coquimbo
87) CC136	1360	10	R. Universidad de Concepción,
88) CB138	°1380	50	R. Cruz del Sur, Santiago
89) CA140	1400	0.25	R. Atacama, Copiapo
90) CC140	1400	1	R. Araucania, Concepción
91) CB141	1410	1	R. Valparaiso, Valparaiso
92) CD141	1410	0.1	R. Loncoche, Loncoche: 13.00-04.00
93) CA142	1420	0.1	R. Alonso de Ercilla, Illapel
94) CB142	1420	1	R. Nacional, Santiago
95) CC142	1420	0.25	R. Maule, Cauquenes
96) CC143	1430	1	R. El Libertador, Rancagua
97) CD143	1430	0.25	R. Cacique Paillalef, Pitrufquen: 13.00-01.00
98) CD143	1430	1	R. Eleutario Ramirez, Osorno
99) CA144	1440	1	R. Univ. Técnica, La Serena
100) CC144	1440	0.25	R. Corporación, Concepción
101) CB145	1450	0.25	Univ. Técnica Santa Maria, Valparaiso
102) CC145	1450	1	R. Condell, Curico
103) CD145	1450	0.25	R. Arauco, Angol

Call	kHz	kW	Name and location
104) CD145B	1450	2.5	R. Turismo, Puerto Varas
105) CA146	1460	1	R. Antofagasta, Antofagasta
106) CB146	°1460	1	R. Yungay, Santiago
107) CC146	1460	1	R. Talcahuano, Talcahuano
108) CC146	1460	0.25	R. Regional, Curico
109) CB147	1470	1	R. Sargento Aldea, San Antonio
110) CD148	1480	1	R. Baquedano, Valdivia
111) CB149	1490	1	R. La Verdad, Santiago
112) CD149	1490	0.1	R. Malleco, Victoria
113) CA150	1500	10	R. Patricio Lynch, Iquique
114) CC150	1500	0.25	R. Centenario, San Javier
115) CC151	1510	1	R. Rancagua, Rancagua
116) CC152	1520	1	R. Soberania, Linares
117) CD152	1520	1	R. Anibal Pinto, Lautaro
118) CA153	1530	1	R. Juan Godoy, Pueblo Hundido
119) CB153	1530	1	R. San Martin, Quillota
120) CC153	1530	1	R. El Carbon, Lota
121) CB154	1540	0.5	R. Sudamerica, Santiago
122) CB155	1550	0.1	R. Provincial, Putaendo
123) CC155	1550	0.25	R. Manuel Rodriquez, San Fernando
124) CD155	1550	0.25	R. Regional, Traiguen
125) CB156	1560	0.1	R. Limache, Limache
126) CC156	1560	0.1	R. Central, San Carlos
127) CD156	1560	0.1	R. Jeronimo de Alderete, Villarrica
128) CB157	°1570	0.25	R. Transandina, Los Andes
129) CC157	1570	0.25	R. O'Higgins, Rancagua
130) CC158	1580	0.25	R. Colchagua, Santa Cruz
131) CD158	1580	0.25	R. Presidente Kennedy, Puren
132) CB159	1590	0.25	R. Acongagua, San Felipe
133) CC159	1590	0.25	R. Rengo, Rengo
134) CB160	1600	0.25	R. Reloj, Valparaiso
135) CC160	1600	0.25	R. Horario, Concepción
136) CC160	1600	0.25	R. Reloj, Talca
137) CD160	1600	0.25	R. Horario, Temuco

Short Waves: Location: Santiago exc. where indicated. * = inactive.

Call	kHz	m	kW	Name and h of tr.
128) CE490	4908	61.14	1	R. Transandina, Los Andes
37) CE595	5955	50.39	1	R. Nuevo Mundo: 10.30-04.00
74) CE597	5975	50.21	10	Emis. Presidente, Balmaceda: 10.00-05.00
72) CE601	6010	49.92	0.25	R. Norte, Antofagasta: 11.00-04.50
56) CE603	6030	49.75	1	R. Mineria, Talca: 11.00-04.00
20) CE605	6050	49.59	0.5	R. Libertad, Antofagasta: 11.00-07.00
138) CE605	6050	49.59		R. Tucapel, Cañete
51) CE607	6075	49.38	5	Soc. Nac. de Mineria: 11.00-05.30
40) CE610	6100	49.18	1	R. Calama: 11.00-05.00
3) CE611	6115	49.06	5	Soc. Nac. de Agricultura: 11.00-05.00
16) CE613	6135	48.90	10	R. Universidad de Concepción: 12.00-04.00
19) CE615	6150	48.78	5	La Voz de Chile: 11.00-04.30
63) CE617	6180	48.54	1	R. Universidad Técnica del Estado: 12.30-03.00
60) CE619	6190	48.47	10	Corp. Chilena de Broadcasting: 11.00-04.00
60) CE951	9510	31.55	1	Corp. Chilena de Broadcasting: 11.00-04.00
71) CE953	9530	31.48	1	R. El Morro, Arica: 11.00-05.00
47) CE955	9550	31.41	1	R. Valentin Letelier, Valparaiso: Mon-Fri: 17.00-19.00, 23.00-03.00 Sat/Sun: 20.00-03.00
61) CE957	9570	31.35	10	R. Portales: 11.00-05.00
74) CE959	9590	31.28	1	R. Pres. Balmaceda: 10.00-05.00
106) CE965	9650	31.09	1	R. Yungay: 11.00-23.00
19) CE969	9690	30.96	1	La Voz de Chile: 11.00-04.30
51) CE975	9750	30.77	5	Soc. Nac. de Mineria: 11.00-05.30
37) CE1174	11740	25.55	5	R. Nuevo Mundo: 11.00-05.30
3) CE1180	11805	25.41	5	Soc. Nac. de Agricultura: 11.00-05.00
88) CE1185	11850	25.32	1	R. Cruz del Sur: 10.45-04.10
19) CE1190	11900	25.21	5	La Voz de Chile, Valparaiso: 10.30-04.30
51) CE1196	11960	25.08	5	Soc. Nac. de Mineria: 11.00-05.30
51) CE1511	*15115	19.85	5	Soc. Nac. de Mineria
60) CE1515	15150	19.80	1	Corp. Chilena de Broadcasting: 11.00-04.00
3) CE1530	*15300	19.61	5	Soc. Nac. de Agricultura

Addresses & other information

1) Cas. 110, Melpilla. Te: 23193. L.P: Mgr: J. Massoud.
2) Cas. 60-D, Valdivia. Te: 6041. L.P: Mgr: E. Carpentier.
3) CB57: Cas. 40-D, Santiago. Te: 64660. CD120: Cas. 327, Los Angeles. Te: 21837. L.P: CB57: Dir: E. Echeverria M. CB120: Dir: S. Jimenez. D.Prgr: N: 11.30, 17.30, 01.30. Also on the h from 13.00. V. by QSL-card. Rec. acc.
4) Cas. 1060, Antofagasta. Te: 23952. L.P: Mgr: M. Miranda.
5) Cas. 486, Concepción. Te: 25801. L.P: Mgr: R. Villaseñor.
6) Cas. 252, Ovalle. Te: 69. L.P: Mgr: F. Morales.
7) Cas. 482, Concepción. Te: 23045. L.P: Mgr: M. Saez.
8) Compañia 1264, Santiago. Te: 711435. L.P: Dir. C. Riesco.
9) Comercio 53, Chañaral. L.P: Mgr: H. Garrao.
10) Cas. 4218, Valparaiso. Te: 55906. L.P: Mgr: G. Morera.
11) Freire 792, Constitución. Te: 63. L.P: Mgr: F. Otayza.
12) Angol. L.P: Mgr: S. Melelli.
13) Cas. 209, Iquique. Te: 572. L.P: Mgr: J. R. Castro A.
14) Cas. 40-D, Temuco. Te: 31943.
15) Cas. 10277, Santiago. Te: 393388. L.P: Mgr: E. Menchaca.
16) Cas. 2337, Concepción. Te: 23207. L.P: Dir: Fco, Dussuel. V. by QSL-card.
17) Cas. 10195, Santiago. Te: 382152. L.P: Mgr: R. Vergera.
18) Cas. 113, Mulchen. Te: 188. L.P: Mgr: J. Cerda C.
19) CB76/CE615/CE970: Cas. 13130, Santiago. Te: 88007. L.P: Mgr: L. Larrain. CB73/CE1190: Cas. 37V, Valparaiso. Te: 56889. L.P: Mgr: C. Spahie. Cable: Vitalradio. V. by letter. Rec. acc.
20) Cas. 457. Antofagasta. L.P: Dir: S. Guttman.
21) Cas. 506, Valparaiso. Te: 56925. L.P: Mgr: N. Tarud.
22) Ramirez 977, Osorno. Te: 2160. L.P: Dir. Gen: P. Burgos R. Dir. Tec: M. Otero S. V. by letter.
23) P. de Valdiva. L.P: Dir: R-.Onat.
24) Cas. 3591, Santiago. Te: 66764. L.P: Dir. Gen: R. Vivado O. Dir. Tec: C. Engelmann. V. by letter.
25) Cas. 358, Talcahuano. Te: 41154. L.P: Mgr. A. Deij.
26) Cas. 119, La Union. Te: 20. L.P: Mgr: C. Figuerua.
27) Cas. 89-V, Valparaiso. Te: 56431. L.P: Dir. Gen: Sra. A. M. Edwards E. Dir. Tec: P. del Campo B. FM: 93.1MHz.
28) Cas. 596, Viña del Mar. Te: 81382. L.P: Dir. Gen: E. Godoy D. Dir. Tec: J. Coiro T. EM: 93.7MHz.
29) Yungay 154, Curacautin. L.P: Mgr: Sra. R. Valenzuela.
30) Cas. 1555, Santiago. Te: 32684. L.P: Mgr: J. Ceardi.
31) Cas. 97, Concepción. Te: 21446. L.P: Dir: M. J. Fonseca A. Dir. Tec: L. Garcia V. FM: 99.5MHz. V. by letter. Rec. acc. Rp.
32) Cas. 599, Punta Arenas. Te: 21902. L.P: Mgr: A. Cárcamo.
33) Universidad Técnica del Estado, Copiapo.
34) Cas. 267, Chillan. Te: 21742. L.P: Dir: H. Vaccaro.
35) Obispado de Osorno, Rahue.
36) Cas. 870, Osorno.
37) Cas. 9255, Santiago. Te: 382392. Cable: R. Nuevo Mundo. L.P: Mgr: F. Bustos. V. by QSL-card and letter.
38) Tenderini 115, Santiago. Te: 31729. L.P: Mgr: O. Pizarro.
39) Cas. 640, Temuco. Te: 33512. L.P: Mgr: A. Zuniga.
40) Cas. 71, Calama. Te: 10. L.P: Dir: J. Granic Mimica. Dir. Tec: M. Quilpatay F. D.Prgr: N: 13.00, 14.30, 16.15, 17.00, 19.00, 21.30, 00.00, 01.30, 04.00. V. by letter. Rec. acc.
41) Cas. 90, Valparaiso. Te: 59352. L.P: Mgr:. A. Coronel
42) Cas. 214, Talca. Te: 31344. L.P: Mgr: O. Guzman.
43) Cas. 53, Coyhaique. L.P: Mgr: L. A. Ojeda.
45) Cas. 13940, Santiago. Te: 382322. L.P: Mgr: A. Benedicto.
46) Cas. 356, Puerto Montt. Te: 2234. L.P: Mgr: R. Salinas.
47) Box 211V, Valparaiso. Te: 57037. L.P: Dir. Gen: J. Carrasco A. Dir. Tec: J. Coiro T. FM: 104.3MHz. V. by letter. Rec. acc.
48) Cas. 106, Castro. Te: 260. L.P: Dir. Gen: A. Velasque C. Dir. Tec: H. Gonzalez M. FM: 90.1MHz. V. by letter. Rec. acc. Rp.
49) Cas. 97, Puerto Natales. L.P: Mgr: J. Navarro.
50) Cas. 516, Temuco. Te: 32140. L.P: Mgr: A. de Mayo.
51) CB106: Cas. 2626, Santiago. Te: 381396. L.P: Mgr: L. H. Videla. Cable: Radiomineria. CB127: Cas. 337, Vina del Mar. V. by QSL-card.
52) Cas. 28-A, Valdiva. Te: 1440. L.P: Mgr: H. Werkmeister.
53) Cas. 410, Antofagasta. Te: 232513. L.P: Mgr: R. Prieto.
54) Cas. 357, La Serana. Te: 942. L.P: Mgr: O. Leiva.
55) Ahumada 131, Santiago. Te: 81703. L.P: Mgr: G. Maldonado.
56) Casilla 21-D, Talca. Te: 31098. L.P: Mgr: A. Hasbún.
57) Cas. 40-D, Punta Arenas. Te: 23135. L.P: Mgr: R. Utz.
58) Cas. 37, Parral. Te: 25. L.P: Mgr: J. Rogazy.
59) Cas. 112, Puerto Aysen. L.P: Mgr: D. Martinez.

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68) Cas. 118, La Serena. Te: 742. L.P: Mgr: A. Pino.
69) Miraflores 276, Santiago. Te: 31957. L.P: Mgr: J. Morris.
70) Valdivia. L.P: Dir: F. Pérez.
71) Cas. 49-D, Arica. L.P: Dir. Gen: M. Lagos del Solar. Mgr: J. Serrano L. Dir. Tec: R. Bórquez Y. FM: 91.1HMz. D.Prgr: N: 12.00, 17.00, 17.15, 00.30, 02.00. V. by letter. Rec. acc.
72) Cas. 556, Antofagasta. Te. 21822. L.P: Mgr: J. Cvitanic. V. by QSL-card. Rec. acc.
73) Universidad Técnica del Estado, Temuco. L.P: Dir: L. Riffo S.
74) Cas. 13650, Santiago. Te: 62867. L.P: Mgr: E. McDonald. V. by QSL-card.
75) Cas. 13, Vallenar. Te: 139. L.P: Mgr: L. Morales.
76) Cas. 318, Concepción. Te: 24021. L.P: Mgr: A. Jaen.
77) Cas. 10210, Santiago. Te: 30107. L.P: Mgr: P. Valenzeula.
78) Cas. 2871, Santiago. Te: 34544. L.P: Mgr: F. Claro.
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81) Cas. 887, Valparaiso. Te: 56509. L.P: Mgr: E. Roger.
82) Cas. 11-D, Chillan. Te: 21667. L.P: Mgr: A. Lagos.
83) Cas. 53, Punta Arenas. Te: 22253. L.P: Mgr: L. Hernandez T.
84) Edif. Yuri, Ancud. L.P: Mgr: H. Vasquez.
85) Cas. 370, Temuco. Te: 33343. L.P: Mgr: V. Bustos.
86) Cas. 92, Coquímbo. Te: 94. L.P: Mgr: C. Salamanca and L. Michea.
87) Universidad Técnica del Estado, Concepción. L.P: Dir. G. Pavez.
88) Cas. 14130, Santiago. Te: 62055. L.P: Mgr: C. Poblete. N: 12.00, 14.00, 16.00, 17.45, 20.00, 22.00, 00.00, 01.45. V. by letter. Rec. acc.
89) Cas. 57, Copiapo. Te: 171. L.P: Mgr: A. Sidgman.
90) Cas. 462, Concepción. Te: 24888. L.P: Mgr: R. Arjona.
91) Cas. 1096, Valparaiso. Te: 55924. L.P: Dir. Gen: J. E. Grinstein B. Dir. Tec: A. Elsitdieh F. FM: 95.7MHz.
92) Cas. 61, Loncoche. Te: 115. L.P: Dir. Gen: J. Figueroa M. V. by letter. Rec. acc.
93) Cas. 369, Illapez. Te: 154. L.P: Mgr: H. Pinochet.
94) Cas. 9987, Santiago. Te: 31782. L.P: Mgr: L. H. Sorrel.
95) Cas. 196, Cauquenes. L.P: Mgr: I. Cortez M.
96) Cas. 102, Rancagua. Te: 22032. L.P: Mgr: E. Ruiz.
97) Cas. 24, Pitrufquen. Te: 5. L.P: Dir. Gen: J. Figuerda M. V. by letter. Rec. acc.
98) Cas. 479, Osorno. Te: 3265. L.P: Mgr: R. Ramirez.
99) Universidad Técnica del Estado, La Serena. L.P: Mgr: R. Larraguibel.
100) Corporación. L.P: Mgr: M. Enriquez.
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102) Cas. 492, Curico. Te: 23. L.P: Mgr: A. Guerra.
103) Cas. 6, Angol. L.P: Mgr: J. Abasolo.
104) Puerto Varas. L.P: Mgr: R. Campisto.
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106) Cas. 3041, Santiago. Te: 31583. L.P: Mgr: H. Beweis. V. by letter. Rec. acc. Rp.
107) Anibal Pinto 399, Talcahuano. Te: 41086. L.P: Mgr: N. Mosciatti.
108) Yungay 735, Curico. L.P: Mgr: Scr. Blanca Galvez.
109) Cas. 38, San Antonio. Te: 31321. L.P: Dir: R. Araya. Mgr: G. Gonzalez.
110) Cas. 758, Valdivia. Te: 1510. L.P: Mgr: C. Cockbaine.
111) Los Serenos 326, Santiago. Te: 60687. L.P: Mgr: H. Cabezas.
112) Cas. 204, Victoria. Te: 107.
113) Vivar 489, Iquique. Te: 572. L.P: Dir: L. Roldan.
114) Cas. 18-D, San Javier. Te: 223. L.P: Mgr: M. Gaete.
115) Cas. 8-D, Rancagua. Te: 22490. L.P: Mgr: J. Romero.
116) Cas. 11-D, Linares. Te: 277. L.P: Mgr: R. Abasolo.
117) Cas. 242, Lautaro. Te: 199, L.P: Mgr: M. Quittner.
118) Cas. 142, Copiapo. Te: 197. L.P: Mgr: Sra. D. Figueroa.
119) Cas. 363, Quillota.
120) Cas. 66, Lota. Te: 63. L.P: Mgr: N. Mosciatti.
121) Cas. 1346, Santiago. Te: 581647. L.P: Mgr: M. Casabianca.
122) Cas. 73, Putaendo. Te: 40. L.P: Mgr: H. Aroncibia.
123) Cas. 147, San Fernando. Te: 300. L.P: Mgr: L. Guerra.
124) Cas. 293, Traiguen. Te: 220. L.P: Mgr: H. Cuadra.
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126) Cas. 202, San Carlos. Te: 163.
127) Cas. 351, Villarrica. L.P: Mgr: N. Páez.
128) Cas. 307, Los Andes. L.P: Mgr: R. Grez T.
130) Cas. 170, Santa Cruz. L.P: Mgr: J. Villalón.
131) Cas. 76, Puren. L.P: Mgr: L. Rivas L.
132) Cas. 100, San Felipe. Te: 198. L.P: Mgr: R. Grez G.
133) Edif. Municipal, Rengo. Te: 68. L.P: Mgr: Sra. I. Gandarillas.
134) Valparaiso. L.P: Mgr: S. Cortés.
135) Concepción. L.P: Mgr: E. Sánchez.
136) Talca. L.P: Mgr: Sra. A. Velasco.
137) Ten uco. L.P: Mgr: I. Hoecker.

COLOMBIA

L.T: GMT — 5 h — Pr.L: Spanish — E.C: a/c 60 (variable
STATIONS: Medium Waves: Call: HJ- -. °=Shortwave. *=inactive.

	Call	kHz	kW	Name and h of tr.
1)	KA	°540	10	R. Horizonte, Bogotá: 09.00-05.00
2)	HF	*550	10	R. Nacional, Manizales
3a)	GS	°560	10	Transm. de la Independencia, Tunja: 11.00-19.00, 22.00-03.00
2)	KA	°570	100	R. Nacional, Bogotá: W 11.00- (Sun 14.00)-05.00
2)	HG	*580	50	R. Nacional, Cali
3)	CR	590	10	Accion Cultural Popular Medellin: 10.30-04.00
4)	HZ	600	25	R. Libertad, Barranquilla: 24 h
5)	KL	°610	10	Emisora Nuevo Granada, Bogotá: 24 h
6)	EL	620	10	R. Tricolor, Cali: 24 h
7)	FD	630	20	R. Manizales, Manizales
8)	BJ	640	10	La Voz de Santa Marta, Santa Marta
9)	JX	650	10	Emisora Monserrate, Bogotá
10)	JM	660	10	R. Uno, Cali: 10.00-05.00
11)	NX	670	10	R. Tricolor, Bello: 24 h
12)	AQ	680	10	R. Miramar, Cartagena
13)	CZ	690	10	La Voz de Colombia, Bogotá
3)	GU	700	120	Acción Cultural Popular, Cali
14)	FT	°710	10	Ecos del Combeima, Ibagué: 11.00-04.00
15)	AN	720	10	Emisoras Unidas, Barranquilla
16)	CU	730	10	R. Tricolor, Bogotá
17)	HB	°740	10	Ecos de Pasto, Pasto: 13.00-05.00
18)	DK	750	50	La Voz de Antioquia, Medellin
19)	AJ	760	10	La Voz de Barranquilla, Barranquilla
20)	KH	770	30	R. Tequendama, Bogotá
21)	ZG	780	30	R. El Pais, Cali
22)	DC	790	10	R. Quinche, Medellin
3)	GY	810	250	Acción Cultural Popular, Bogotá: 10.45-04.00
23)	BW	810	10	Emisora Atalaya, Bucaramanga: 11.00-03.00
24)	ED	820	50	La Voz del Rio Cauca, Cali: 24 h
25)	DM	°830	10	R. Visión, Medellin: 10.00-05.00
26)	BI	840	10	Ondas del Caribe, Santa Marta: 24 h
27)	KC	°850	50	Emisora Nuevo Mundo, Bogotá
28)	EP	860	10	Voces de Occidente, Buga
29)	LA	°870	10	La Voz del Tolima, Ibague: 12.00-05.00
30)	GE	°880	10	R. Bucaramanga, Bucaramanga: 11.00-04.00
31)	CE	°890	10	La Voz de Bogotá, Bogotá: 11.00-04.00
32)	EY	°900	10	La Voz de Cali, Cali: 12.00-05.00
33)	DO	°910	25	La Voz del Rio Grande, Medellin: 13.00-04.00
34)	AE	920	10	Emisoras Fuentes, Cartagena: 11.00-06.00
35)	CS	°930	10	R. Continental, Bogotá: 11.00-05.00
36)	GB	940	10	R. Eco, Cali
37)	FN	950	10	La Voz del Café, Pereira
3)	HN	960	120	Acción Cultural Popular, Barranquilla: 11.00-05.00
38)	CI	°970	10	La Voz de la Victor, Bogotá
39)	ES	°980	30	R. El Sol, Cali: 12.00-05.00
40)	DB	°990	10	La Voz de Medellin, Medellin: 10.30-05.00
2)	BU	*1000	100	R. Nacional, Bogotá
41)	BN	1010	10	La Voz de Galeras, Pasto
42)	CC	1010	10	Emisora Mil Veinte, Bogotá: 10.00-05.00
43)	DQ	1020	5	Emisora Claridad, Medellín
44)	AI	1020	5	R. Quinche, Barranquilla
45)	FQ	°1030	10	La Voz del Pueblo, Pereira: 12.00-04.00
46)	DJ	1030	10	La Voz de los Libertadores, Duitama
47)	ER	°1030	10	R. Pacifico, Cali: 11.00-05.00

	Call	kHz	kW	Name and h of tr.
48)	CJ	1040	5	R. Melodia, Bogotá: 12.00-05.00
49)	GX	1040	1	R. Progreso de Córdoba, Lorica
50)	BB	°1050	2	R. Valledupar, Valledupar
51)	DR	1050	1	La Voz del Triunfo, Medellin
52)	NC	1050	1	La Voz del Nevado, Ibagué
53)	NG	1050	2.5	R. Palmira, Palmira
54)	FJ	°1060	1	Transmisora Caldas, Manizales: 24 h
55)	GU	1060	1	R. Bucarica, Bucaramanga
56)	AH	°1070	10	Emisora Atlántico, Barranquilla
57)	CG	°1070	10	R. Santa Fé, Bogotá: 24 h
58)	DZ	1070	10	R. Reloj, Medellin: 24 h
59)	AW	1080	10	La Voz de Monteria, Monteria
60)	JB	1080	10	R. Musical, Cali
61)	BC	1090	10	La Voz de Cúcuta, Cúcuta
62)	FM	1090	10	La Voz de Armenia, Armenia
63)	IH	1090	1	La Voz de Oriente, Sogamoso
64)	AT	1100	1	R. Reloj, Barranquilla: 24 h
65)	CN	°1100	10	R. Reloj, Bogotá: 24 h
66)	DI	1110	10	R. Bolivariana, Medellin
67)	EW	1110	1	R. Reloj, Cali: 24 h
68)	FZ	°1110	10	La Voz del Centro, El Espinal: 11.00-04.00
69)	GH	1120	5	R. del Comercio, Bucaramanga
70)	KQ	1120	10	R. Tunja, Tunja
71)	JC	1130	1	R. Cartago, Cartago: 24 h
72)	AC	1130	10	Emisoras Rio-Mar, Barranquilla: 11.00-06.00
73)	CO	1130	5	R. Suramérica, Bogotá
74)	DL	1140	5	R. Cristal, Medellin
75)	EV	1140	1	La Voz del Valle, Cali
76)	NS	*1140	10	R. Guatapuri, Valledupar
77)	TR	1140	2.5	R. Girardot, Girardot
78)	NH	1150	5	Ondas del Rio, Magangué
79)	BT	°1150	10	R. Catatumbo, Ocaña: 11.00-04.00
80)	FI	1150	1	Pregones del Quindio, Armenia
3)	GJ	1150	1	Acción Cultural Popular, Belencito: 10.45-03.10
81)	AZ	1160	5	Emisoras Sinu, Monteria: 24 h
82)	BL	1160	2.5	Ondas de la Ciénagá Grande, Ciénaga
83)	CK	1160	10	El Mundo en Bogotá, Bogotá: W 12.25-05.03, Sun 15.00-04.05
84)	ZV	1160	5	R. Las Lajas, Ipiales: 12.00-02.00
85)	DP	°1170	10	R. Colosal, Neiva: 24 h
86)	DT	1170	1	R. Nutibara, Medellin
87)	JE	1170	1	Emisora Villa de Céspedes, Tuluá
88)	FX	1180	1	La Voz del Ruiz, Manizales
89)	GK	1180	10	R. Santander, Bucaramanga
90)	CT	1190	10	La Voz de la Costa, Barranquilla: 10.30-05.00
91)	CV	1190	10	R. Cordillera, Bogotá
92)	EO	1190	1	Ondas del Valle, Cartago
93)	DF	1190	1	R. Tumaco, Tumaco
94)	BX	°1200	2	La Voz del Llano, Villavicencio: 13.00-05.00
95)	HJ	1200	1	Ondas del Atrato, Quibdo
96)	CD	1200	1	Emisora Nueva Epoca, Fusagasugá
97)	IJ	1200	1	R. Colibri, Medellin
98)	NF	1200	1	R. Mil Doscientos, Cali: 24 h
99)	BE	°1210	20	R. Internacional, Cúcuta
100)	FF	°1210	10	La Voz Amiga, Pereira: 12.00-04.00
101)	AV	1220	10	R. Cordobesa, Monteria: 10.00-04.00
102)	FV	1220	10	La Voz del Litoral, Barranquilla
103)	KR	1220	10	R. Juventud, Bogotá
104)	NM	1220	2.5	Emisora Cultural Bolivar, Ipiales
105)	FP	°1230	10	R. Neiva; Neiva: 10.00-04.00
106)	IL	1230	5	La Voz de las Américas, Medellin
107)	JQ	1230	1	R. Unica, Tunja
108)	LK	1230	1	R. Calidad, Cali
109)	FG	1240	5	La Voz del Comercio, Armenia
110)	GN	1240	5	R. Barrancabermeja,
111)	JA	°1240	1	R. Buana Ventura, Buana Ventura
112)	AO	1250	1	Emisoras ABC, Barranquilla
113)	CA	1250	1	R. Guadaira, Bogotá
114)	FM	1250	1	La Voz de Corozal, Corozal
115)	HS	1250	1	R. Reloj, Cúcuta: 24 h
116)	HZ	1250	1	Emisoras Mariana, Pasto
117)	DA	1260	1	Emisora Siglo Veinte, Medellin: 24 h
118)	DV	1260	1	R. Cacique, Ibaqué
119)	ET	1260	2.5	R. Quince, Cali: 11.00-05.00
120)	HU	1260	1	R. Morgan, San Andrés Isla
121)	NO	1260	1	R. Duitama, Duitama: 24 h
122)	OH	1260	1	Voz del Cesar, Valledupar
123)	KZ	1270	1	Onda Libre, Pereira
124)	TX	1270	1	R. Quinche, Bucaramanga
125)	AR	1270	1	La Voz de Cartagena, Cartagena
126)	EB	1280	1	La Voz de Ciénaga, Ciénaga
127)	LR	1280	1	R. Pasto, Pasto
128)	KN	1280	10	R. Metropolitana, Bogotá: 24 h
129)	NQ	1280	1	La Voz del Rio Suárez, Barbosa
130)	CM	1290	1	R. Sur, Pitalita: 10.00-03.00
131)	EC	1290	1	R. Libertador, Cali
132)	HI	1290	10	La Voz de Garagoa, Garagoa: 10.00-04.00
133)	IA	°1290	1	R. Villavicencio: 09.00-05.00
134)	KY	1290	1	Ondas del Puerto, Girardot
135)	OI	1290	1	Ondas de Maicao, Maicao
136)	TH	1290	1	R. Ritmos, Medellin: 24 h
136)		1290	1	R. Estrellas, Armenia: 11.00-05.00
137)	IR	1300	1	La Voz de Urba, Turbo
138)	LD	1300	1	Emisora Rio San Eugenio, Sta Rosa de Cabal
139)	NB	1300	1	R. Reloj, Bucaramanga
140)	OG	1300	1	La Voz de las Antillas, Cartagena
141)	AK	1310	2.5	La Voz de la Partia, Barranquilla
142)	DG	1310	1	Transmisora Rio, Monteria
143)	JZ	1310	1	R. Quinche, Bogotá
144)	TQ	1310	1	R. Tasajero, Cúcuta
145)	FR	1320	1	Ondas del Huila, Neiva: 24 h
146)	HT	1320	1	R. Furatena, Chiguinquira
147)	NK	1320	1	R. Luna, Palmira
148)	TA	1320	1	La Voz de la Independencia, Medellin
149)	VT	1320	1	La Voz del Tocarema, Girardot
150)	AD	1330	1	R. Vigia, Cartagena: 24 h
151)	FE	1330	5	La Voz de Pereira, Pereira
152)	MQ	1330	1	La Voz de Chicamocha, Bucaramanga
153)	BF	1340	1	La Voz del Norte, Cúcuta
154)	FA	1340	1	Cadena Radial del Caribe, Barranquilla
155)	FB	1340	1	R. Calidad, Bogotá
156)	HY	1340	1	Transmisora Sucre, Sincelejo
157)	NA	°1340	1	R. Nariño, Pasto: 10.00-04.00
158)	DS	1350	1	La Voz de la Candelaria, Bello: 10.00-05.00
159)	EN	1350	1	R. La Fabulosa, Cali
160)	FY	1350	1	La Voz del Chaparral, Chaparral
161)	HL	1350	1	R. Industrial, Ibagué
162)	HW	1350	2	Ecos del Rio, Puerto Boyacá
163)	IG	°1350	1	Ondas del Meta, Villavicencio
164)	FH	1360	1	La Voz de Anserma: 11.00-04.00
165)	GI	1360	1	Emisor José A. Galán, Socorro: 10.00-03.00
166)	NI	1360	1	R. Sabanas, Sincelejo
167)	BD	1370	1	R. Guaimaral, Cúcuta
168)	BO	1370	1	R. Piloto, Barranquilla
169)	EA	°1370	0.75	La Voz del Cauca, Popayán: 13.00-04.00
170)	KX	1370	1	R. Mundial, Bogotá: 24 h
171)	EJ	1380	1	Armonias del Palmar, Palmira
172)	LG	1380	1	La Voz de la Dorada, La Dorada
173)	KD	1380	5	Armonias del Sur, Neiva: 10.00-04.00
174)	NU	1380	1	R. Santa Bárbara, Santa Bárbara
175)	FO	1390	1	R. Luz, Manizales
176)	NY	1390	1	R. Pitatón, Barrancabermeja
177)	AS	1400	1	R. Variedades, Barranquilla
178)	BK	1400	1	La Voz de la Gran Colombia, Cúcuta
179)	JJ	1400	1	R. Ipiales, Ipiales: 11.00-04.00
180)	KM	1400	0.25	Emisora Mariana, Bogotá
181)	TJ	1400	1	La Voz de Cereté, Cereté
182)	BY	1410	1	Ondas del Orteguaza, Florencia
183)	DU	1410	0.5	Emisora Cultural, Medellin: 17.00-03.00
184)	EI	1410	0.5	Emisora Guadalajara, Buga
185)	FS	1410	1	Ondas del Guali, Honda
186)	HM	1410	1	La Voz de Calarcá, Calarcá
187)	AP	1420	1	R. Bahia, Cartagena
188)	HK	1420	1	R. Reloj, Manizales
189)	BH	1430	1	R. Magdalena, Santa Marta
190)	BP	1430	1	R. Pamplona, Pamplona
191)	EG	1430	1	La Voz de Belalcázar, Popayán
192)	KU	°1430	1	La Voz de Maria, Bogotá
193)	BZ	1430	1	Ondas del Riohacha, Riohacha
194)	EK	1440	1	R. Tuluá, Tuluá
195)	FL	1440	1	Ondas de Ibagué, Ibagué
196)	GM	1440	1	R. Sogamoso, Sogamoso
197)	IB	°1440	1	La Voz de Caquetá, Florencia
198)	NZ	1440	1	Armonias del Ingruma, Rio Sucio
199)	NL	1450	1	R. Sintonia, Villa Maria
200)	TY	1450	1	La Voz del Carare, Vélez
201)	AL	1460	5	R. Sincelejo, Sincelejo
202)	BA	1460	1	La Voz de Pamplona, Pamplona: 11.00-02.00
203)	BQ	1460	1	R. Fundación: 10.00-04.00
204)	JW	1460	1	Nuevo Continente, Bogotá
205)	ZU	1460	1	La Voz de la Amistad, Pasto
206)	IM	1470	1	R. Ya, Medellin
207)	NT	1470	1	La Voz del Paraiso, Cerrito
208)	BM	1470	1	La Voz de Honda, Honda
209)	FC	1480	1	R. Centinela, Pereira
210)	TZ	1480	3	R. Palonegro, Bucaramanga: 10.00-05.00

Call	kHz	kW	Name and h of tr.
211) DH	1480	1	R. Quibdo, Quibdo
136) BC	1490	1	R. Ritmos, Bogotá: 11.00-05.00
212) BS	1490	1	R. San Diego, Bogotá: 11.00-05.00
213) AY	1490	1	R. Cumbia, Barranquilla
214) CL	1500	1	R. Garzón, Garzón
215) GA	1500	1	R. Boyacá, Tunja
216) LJ	1500	1	R. Calima, Darien
217) TW	1500	1	R. Sumapez, Fusagasugá
218) ZH	1500	1	La Voz Katia, Medellin
219) HX	1510	1	La Voz Panamericana, Bucaramanga
220) ZA	1510	1	R. Estrella, Armenia
221) LI	1520	5	R. Latina, Bogotá
222) LQ	1520	2.5	R. Minuto, Barranquilla: 24 h
223) LS	1520	1	R. Popayán, Popayán
224) GD	°1530	0.35	Reina de Colombia, Chiquinquirá
225) DN	1530	0.25	Liceo Departamental, Sonsón
226) JB	1530	1	R. Sevilla, Sevilla
227) LE	1530	1	R. Armero, Armero
228) BV	1540	1	R. Canoa, Turbaco
229) MB	1540	1	R. Sur Oeste, Concordia
230) ZF	1540	1	Emisora Mariana, Manizales
231) HD	1540	5	La Voz del Petróleo, Barrancabermeja: 10.00-04.00
232) AX	1550	1	R. Corp. Barraza, Puerto Colombia
233) GY	1550	1	R. Magangué, Magangué
234) LT	1550	1	Ecos del Quilichao, Santander
235) ZI	1550	1	R. Fantasia, Bogotá
236) CP	1560	1	R. Parroquial, Nemocón
3) GP	°1560	1	Acción Cultural Popular, Sutatenza
237) KG	1560	1	R. Cundinamarca, Tocaima
238) LP	1560	1	R. Espacial, Tuluá
239) ZX	1560	0.25	R. Copacabana, Medellin
240) ZT	1570	1	R. Sensación, Manizales
241) HE	1570	1	Voces Rovirenses, San José de Miranda
242) KF	1580	1	Armonías Zipaquireña, Ziparquira
243) LC	1580	1	La Voz del Banco, El Banco
244) IP	1590	1	La Voz de la Música, Medellin
245) JO	1590	1	R. Zarzal, Zarzal
246) ZT	1600	1	R. Ciudad Milagro, Armenia: 24 h

Short Waves: Call HJ--, * = inactive; 11.00-05.00 exc. where indicated.

Call	kHz	m	kW	Name and h of tr.
3) GO	*3250	92.31	10	Acción Cultural Popular
3) GW	*3260	92.90	10	Acción Cultural Popular
2) AB	*3290	91.19	20	R. Nacional, Bogotá
27) KC	4755	63.06	1	Em. Nuevo Mundo, Bogotá
224) IV	*4755	63.09	2.5	Reina de Colombia, Chiquinquirá
79) DY	4765	62.95	1	R. Catatumbo, Ocaña: 11.00-04.00
192) KW	4775	62.83	1	La Voz de Maria, Bogotá
14) LW	4785	62.70	1	Ecos del Combeima, Ibagué: 11.00-04.00
65) CN	4795	62.57	1	R. Reloj, Bogotá: 24 h
157) HC	4825	62.18	1	R. Nariño, Pasto: 10.00-04.00
111) AM	4835	62.05	1	R. Buenaventura
30) GF	4845	61.92	1	R. Bucaramanga, Bucaramanga: 11.00-04.00
105) FV	4855	61.79	1	R. Neiva, Neiva: 10.00-04.00
133) DE	4875	61.54	1	R. Villavicencio, Villavicencio: 09.00-05.00
163) IG	4885	61.41	1	Ondas del Meta, Villavicencio
38) CH	*4895	61.29	1	La Voz de la Victor, Bogotá
56) AG	*4905	61.16	1	Emisora Atlántico, Barranquilla
76) SG	4915	61.03	1	R. Guatapuri, Valledupar: 11.00-05.00
85) DH	4945	60.67	2.5	R. Colosal, Neiva: 24 h
2) CQ	4955	60.54	50	R. Nacional, Bogotá: 11.00-05.00
57) AF	4965	60.42	2.5	R. Santa Fé, Bogotá: 24 h
99) JG	4975	60.30	10	R. Internacional, Cúcuta
54) FW	5020	59.76	1	Transmisora Caldas, Manizales: 24 h
197) IC	*5035	59.58	1	La Voz de Caquetá, Florencia
40) DW	5050	59.41	1	La Voz de Medellin, Medellin: 10.30-05.00
3) GC	5075	59.11	25	Acción Cultural Popular
3) GG	5095	58.88	50	Acción Cultural Popular
31) CF	5960	50.34	1	La Voz de Bogotá: 11.00-04.00
1) VN	5970	50.25	10	R. Horizonte, Bogotá: 09.00-05.00
33) LY	5980	50.17	10	La Voz del Rio Grande, Medellin: 13.00-04.00
3a) HA	5985	50.13	10	Transmisora de la Independencia, Tunja: 11.00-19.00, 22.00-03.00
45) FL	5995	50.04	1	La Voz del Pueblo, Pereira: 12.00-04.00
100) FK	6010	49.92	1	La Voz Amiga, Pereira: 12.00-04.00
13) CZ	6020	49.83		La Voz de Colombia, Bogotá
2) CT	6030	49.75	50	R. Nacional, Bogotá: 11.00-05.00
29) LB	6040	49.67	10	La Voz del Tolima, Ibagué: 12.00-05.00
47) EX	6055	49.55	5	R. Pacífico, Cali: 11.00-05.00
3) CT	6075	49.38	10	Acción Cultural Popular
17) DX	6085	49.30	1	Ecos de Pasto, Pasto: 13.00-05.00
68) IW	6095	49.22	1	La Voz del Centro, Espinal: 11.00-04.00
25) DV	6105	49.14	1	R. Visión, Medellin: 10.00-24.00
94) IQ	6115	49.06	1	La Voz del Llano, Villavicencio: 13.00-05.00
34) KE	6125	48.98	1	R. Continental, Bogotá
39) NE	6140	48.86	1	R. El Sol, Cali: 12.00-05.00
169) EQ	6145	48.82	1	La Voz del Cauca, Popayán: 13.00-04.00
5) KJ	6160	48.70	10	Emisora Nueva Granada, Bogotá: 24 h
50) DD	6170	48.62	1	R. Valledupar, Valledupar
2) WT	6183	48.52	50	R. Nacional, Bogotá: 11.35-04.25
32) EZ	6195	48.43	1	La Voz de Cali, Cali: 12.00-05.00
2) CQ	9635	31.14	20	R. Nacional, Bogotá
3) GO	*9655	31.07	50	Acción Cultural Popular
2) ZN	*11795	25.43	50	R. Nacional, Bogotá
2) ZO	*11895	25.22	50	R. Nacional, Bogotá
3) GZ	*11900	25.21	10	Acción Cultural Popular
3) GL	*15235	19.67	10	Acción Cultural Popular
2) ZP	15335	19.56	50	R. Nacional, Bogotá: irr.
2) ZQ	*17865	16.79	50	R. Nacional, Bogotá
2) ZR	*21510	13.95	50	R. Nacional, Bogotá
2) ZS	*25750	11.65	50	R. Nacional, Bogotá

Abbreviations: Cl = Calle, Cr = Carrera, Aéreo = Apartado Aéreo.

CARACOL (Primera Cadena Radial Colombiana) (Comm)
ADDR: Aéreo 9291, Bogotá. **Te:** 349580. **Cable:** Caracol. **L.P:** Pres: E. Bermúdez. Comm. Mgr: J. Alvarez B. Regional Mgrs: J. Alvarez B. (Bogotá), A. Toro M. (Medellin), R. Payán S. (Cali), G. Aristizábal E. (Manizales), L. Jaime E. (Barranquilla).
Stations: a) basic network, b) R. Reloj, c) R. Quince. To network a) belong: 18), 23), 27), 37), 61), 69), 80), 88), 102), 127), 187), 189), 223). **Relays** by FM link include news ("El Repórter Esso", "Ultima hora Caracol") and extensive programming in net a), usually originating from st. 27). **Ann** (cf. each station) a) "Transmite Carocol por sus emisoras . . .", or "Con ustedes . . . sus emisoras Caracol en . . ." b) "Con ustedes R. Reloj, otra emisora Caracol en. . . ."

TODELAR (Circuito Todelar de Colombia) (Comm. Net).
ADDR: Aéreo 4392, Cali. **Te:** 89386. **Cable:** Todelar. **L.P:** Pres: B. Tobón de la Roche. Dir. Gen: J. Palacio S. Net. Coord: A. Goicochea L.
Office in Bogotá: Aéreo 8467. **Te:** 415036. Mgr: J. Tobón de la Roche. Comm. Mgr: J. Garcia C — **Stations (Basic Netw.):** 7), 9), 10), 20), 23), 29), 31), 32), 33), 34), 35), 36), 39), 41), 45), 61), 71), 72), 74), 81), 91), 99), 100), 150), 206) + 76 affiliated st's — **Relays** (by FM link) include news ("El Noticiero Todelar"), sports and special events. Most prgr's originate from no. 33), 34) and 39). **Ann:** (cf. each station) "Desde el Radiocentro Todelar y su Circuito Nacional de Emisoras, les habla . . . Todelar se escucha en toda la nación" or "Somos Todelar, somos profesionales, somas . . . Gracias por su amable sintonia".

RCN (Radio Cadena Nacional) (Comm. Net).
ADDR: Aéreo 1244, Medellin. **Te:** 428640. **L.P:** Pres: R. J. Arango. Gen. Mgr: A. Jaramillo O. **Office in Bogotá:** Cr. 15 No. 13-47. **Te:** 344805. **St. Mgr:** J. Suarez — **Stations:** (Basic network): 5), 19), 40), 47), 54), 89), 101), 105) + numerous affiliated stations. **Relays** by FM link include news ("Actualidades RCN"), sports and special events. Most prgr's originate from no. 5) and 40) — **Ann:** (of each station) "Transmite Radio Cadena Nacional por su emisora . . . RCN, el sistema radial más poderoso de Colombia".

CORAL (Corp. Radial Colombiana), Aéreo 10951, Bogotá. **Te:** 429435. **Stations:** 70), 103), 153), 235).

RST (Radio Sistema Tricolor), Aéro 7766, Bogotá. **Stations:** 6), 11), 16), 48), 52), 73), 128), 158).
CRI (Cadena Radial Independiente), Cr. 5 No. 1614, Bogotá. Te: 43-4654. **Stations:** 14), 17), 82), 97), 113), 134), 140), 167), 170), 173), 175), 198), 199), 213), 215), 217), 244).

DEPARTMENTS (Departamentos).

Ama = Amazonas; Ant = Antioquia; Ara = Arauca; Atl = Atlantico; Bol = Bolivar; Boy = Boyaca; Cal = Caldas; Caq = Caqueta; Cau = Cauca; Cho = Choco; Cor = Cordoba; Cun = Cundinamarca; Gua = Guainia; Guj = Guijira; Hui = Huila; Mag = Magdalena; Met = Meta; Nar = Nariño; Nsa = Nte. Santander; Put = Putumayo; San = Santander; Sap = San Andres y Provincia; Tol = Tolima; Vau = Vaupes; Vdc = Valle del Cauca; Vic = Vichada.

Addresses and other information:

1) Apt. Aéreo 5947, Bogotá, Cun. Te: 439813. L.P: Pres: A. Galindo. Dir. Tec: S. Munevar S. V. by QSL-card. Rec. acc. FM: 94.1MHz 0.05kW.

2) **Inravision, R. Nac. de Colombia** (Gov. Net). **Addr:** Via del Aeropuerto El Dorado, Bogotá, Cun. **Studios:** Transv. 17 No. 25-65, Bogotá. Te: 447900. L.P: Dir. Gen: Dr. L. E. Fonseca. Dir. Tec: J. E. Nassar. D.Prgr: N: 12.00, 18.00, 03.00. V. by letter. FM: 98.9MHz. St's under construction: 580kHz 50kW (Cali), 550kHz 10kW (Manizales), 870kHz 250kW (S. Andrés Island).

3) **Acción Cultural Popular** (R. Sutatenza, Comm. Net). **Addr:** Aéreo 7170, Bogotá, Cun. Te: 420543. **Cable:** Radiofónicas. L.P: Dir. Gen: Mons. J. J. Salcedo. Gen. Mgr: F. Sarmiento O. Dir. Prgr: F. Gutiérrez R. Dir. Tec: P. Sánchez C. D.Prgr: N: 12.00, 17.00, 00.00, 03.00. FM: 88.1MHz. V. by QSL-card. Rec. acc.

3a) Apt. Nac. 79, Tunja, Box Te: 2264. L.P: Dir: R. Castro F. FM: 94.7MHz.

4) Aéreo 2693, Barranquilla, Atl. Te: 26150. **Cable:** Radiolibertad. L.P: Mgr: N. Fayad M. Adm: A. J. de Castro. Dir. Prgr: T. Pizarro. V. by letter. FM: 96.9MHz.

5) Aéreo 4984, Bogatá, Cun. Te: 344805. L.P: Mgr: J. Suarez. Dir. Tec: H. Jiménez. D.Prgr: N: every h on the h. V. by QSL-card. Rec. acc. FM: 101.5MHz.

6) Av. 2 No. 27-58, Cali, VDC. Te: 63812. L.P: Mgr: J. A. Vanegas R. Adm: O. Zamurano. FM: 90.5MHz.

7) Aéreo 67, Manizales, Cal. Te: 21395. L.P: Mgr: J. Zuluaga. V. by letter. FM: 92.9MHz.

8) Aéreo 540, Santa Marta, Mag. Te: 3561. L.P: Mgr: H. Cohen S. V. by letter. FM: 90.9MHz.

9) Aéreo 13018, Bogotá, Cun. Te: 348141. L.P: Mgr: J. Tobón de la Roche. FM: 95.7MHz.

10) Aéreo 4392, Cali, VDC. Te: 881993. **Cable:** Radiouno. L.P: Mgr: A. Goicochea L. V. by letter. FM: 90.5MHz.

11) Pasaje Comercial Astoria 105, Bello, Ant. L.P: Mgr: J. A. Vanegas R. Adm: H. Pérez S. FM: 90.5MHz.

12) Aéreo 246, Cartagena, Bol. L.P: Mgr: Mario J. Mesa. FM: 92.9MHz.

13) Aéreo 3855, Bogotá, Cun. Te: 422344. L.P: Pres: J. Ortiz M. FM: 97.3MHz.

14) Cr. 3 No. 12-29, Ibagué, Tol. L.P: Dir. Gen: J. Eugenio C. Dir. Tec: C. Estévez. V. by letter. FM: 88.7MHz.

15) Aéreo 154, Barranquilla, Atl. Te: 10120. **Cable:** Emisunidas. FM: 90.5MHz.

16) Aéreo 7766, Bogotá, Cun. Te: 321463. L.P: Mgr: J. A. Vanegas R. FM: 90.5MHz.

17) Aéreo 375, Pasto, Nar. L.P: Dir. Gen: J. Alvarez S. Dir. Tec: E. Gallardo G. D.Prgr: N: 11.30, 17.15, 11.00. V. by letter.

18) Aéreo 718, Medellin, Ant. Te: 450838. L.P: Mgr: A. Toro M. V. by letter. FM: 93.7MHz.

19) Aéreo 1883, Barranquilla, Atl. L.P: Dir: F. Vargas V.

20) Cr. 8 No. 17-33, Bogotá, Cun. Te: 348141. L.P: Mgr: J. Tobón de la Roche. FM: 95.3MHz.

21) Edifico Lloreda, Cali, VDC. V. by letter. FM: 97.7MHz.

22) Aéreo 1864, Medellin, Ant. FM: 96.1MHz.

23) Cl. 35 No. 21-28, Bucaramanga, San. Te: 27513. **Cable:** Radiotalaya. L.P: Mgr: G. Serrano F. V. by letter. (Reported on 812kHz). FM: 95.7MHz.

24) Cr. 1 No. 18-39, Cali, VDC. Te: 72730. L.P: Mgr: R. Payán S. Dir. Tec: A. Restrepo. FM: 93.7MHz.

25) Aéreo 3163, Medellin, Ant. Te: 419027. L.P: Dir: J. Tobón de la Roche. V. by letter. Rp. FM: 92.9MHz.

26) Aéreo 757, Santa Marta, Mag. Te: 3274. L.P: Mgr: A. Diaz G. V. by letter. FM: 91.7MHz. Rec. acc.

27) Aéreo 9291, Bogotá, Cun. Te: 349580. L.P: St. Mgr: J. Alvarez B. Tec. Dir: M. Frick. D.Prgr: N: Every h on the h and 12.15, 18.15, 00.15. V. by QSL-card. Rec. acc. FM: 93.7MHz.

28) Cr. 14 No. 2-25, Buga, VDC. Te: 2355. **Cable:** Vozoccidente. L.P: Mgr: R. Antonio A. FM: 96.7MHz.

29) Aéreo 780, Ibague, Tol. Te: 30297. **Cable:** Voztolima. L.P: Mgr: N. Gónzales. Adm: C. Rojas. V. by letter or QSL-card. FM: 91.3MHz.

30) Aéreo 572, Bucaramanga, San. Te: 25406. L.P: Dir. Gen: J. Sorzano B. Dir. Tec: G. Sorzano J. D.Prgr: N: 12.00, 17.00, 24.00, 03.00, FM: 96.5MHz. V. by letter.

31) Aéreo 13018, Bogotá, Cun. Te: 424923. Prgr: Tropical music. FM: 96.9MHz. V. by letter. Rec. acc.

32) Aéreo 1972, Cali, VDC. Te: 811300. **Cable:** Vozcali. L.P: Mgr: B. Tobón de la Roche. Dir. Tec: L. C. Escobar. V. by letter. FM: 92.9MHz.

33) Aéreo 1431, Medellin, Ant. Te: 437028. **Cable:** Vozrio. L.P: Dir. Gen: B. Tobón de la Roche. Mgr: J. Restrepo L. V. by letter. Rec. acc.

34) Aéreo 1771, Cartagena, Bol. L.P: Mgr: N. Fuentes M. V. by letter.

35) Cr. 5 No. 18-84, Bogotá, Cun. Te: 415036. **Cable:** Radiocontinental. L.P: Mgr: J. Tobón de la Roche. V. by letter. FM: 92.9MHz.

36) Aéreo 4395, Cali, VDC. Te: 811957. **Cable:** Radiocco. L.P: Mgr: J. Romero C. FM: 91.3MHz.

37) Cl. 18 No. 8-47, Pereira, Cal. Te: 8941. L.P: Mgr: F. Maldonando. FM: 96.7MHz.

38) Cr. 7 No. 11-36, Bogotá, Cun. Te: 421105. L.P: Mgr: A. Gaitán. V. by QSL-card.

39) Aéreo 1972, Cali, VDC. Te: 751230. **Cable:** Radiosol. L.P: Mgr: B. Tobón de la Roche. FM: 95.3MHz.

40) Aéreo 1244, Medellin, Ant. Te: 428640. L.P: Dir: R. J. Arango Mejia. Dir. Tec: G. Liano. V. by letter. Rec. acc. FM: 88.5MHz.

41) Cr. 22 No. 19-47, Pasto, Nar. Te: 2774. **Cable:** Vozgaleras. L.P: Mgr: T. Ville V. FM: 96.1MHz.

42) Aéreo 10556, Bogotá, Cun. Te: 434988. L.P: Dir. Gen: L. F. Barros B. Dir. Tec: G. Giménez. FM: 94.5MHz.

43) Aéreo 2090, Medellin, Ant. Te: 81900. **Cable:** Emiclaridad. L.P: Mgr: S. Parra. (reported on varying freq 1024-1027kHz). FM: 89.7MHz.

44) Aéreo 397, Barranquilla, Atl. L.P: Mgr: E. Ariza. V. by letter (reported on 1015kHz). FM: 89.9MHz.

45) Aéreo 244, Pereira, Cal. Te: 2396. L.P: Mgr: J. Mejia D. V. by letter. FM: 92.3MHz.

46) Aéreo 1030, Duitama, Boy. Te: 2572. L.P: Mgr: C. Rodriguez. V. by letter (reported on 1032kHz). FM: 90.9MHz.

47) Aéreo 2180, Cali, VDC. Te: 74110. L.P: Mgr: J. Córdoba M. V. by QSL-card. FM: 88.5MHz.

48) Aéreo 7766, Bogotá, Cun. Te: 44917. L.P: Mgr: J. A. Vanegas R. D.Prgr: 12.00-05.00. FM: 92.5MHz.

49) Aéreo 4864, Lorica, Cor.

50) Cl. 9 No. 41-14, Valledupar, Mag. Te: 3178. L.P: Mgr: H. Aristizábal R. V. by letter.

51) Cr. 51 No. 58-66, Medellin, Ant. L.P: Mgr: L. B. Ramirez P. Dir. Tec: H. Cárdenas. FM: 91.3MHz. V. by letter. Rec. acc.

52) Carratera Girardot km 3, Ibagué, Tol.

53) Aéreo 280, Palmira, VDC. L.P: Mgr: O. Burkhardt.

54) Aéreo 244, Manizales, Cal. Te: 27890. **Cable:** Transmisora. L.P: Dir. Gen: I. Escobár U. St. Mgr: H. Villegas J. Dir. Tec: E. Martinez. Dir. Prgrs: J. Castro E. D.Prgr: N: 12.00, 17.30, 23.30. V. by letter. Rec. acc. FM: 90.5MHz 0.25kW.

55) Cl. 35 No. 21-28, Bucaramanga, San. Te: 27513. L.P: Mgr: G. Serrano F. FM: 97.3MHz.

56) Aéreo 174, Barranquilla, Atl. L.P: Mgr: M. A. Blanco. FM: 92.1MHz.

57) Aéreo 9339, Bogotá, Cun. Te: 417404. **Cable:** Radio Santafe. L.P: Pres: Luisa V. de Bernal. Mgr: A. Guzmán A. V. by QSL-card and letter. FM: 97.7MHz.

58) Aéreo 718, Medellin, Ant. Te: 450515. L.P: Mgr: H. Restrepo A. Adm: I. Torres Q. FM: 95.5MHz. (Mw reported on 1082kHz).

59) Monteria, Cor. Te: 321. L.P: Mgr: G. Gómez P.

60) Cl. 11 No. 9-20, Cali, VDC. Te: 811300. **Cable:** Radiomusical. L.P: Mgr: B. Tobón de la Roche. FM: 89.7MHz.

61) Av. 5 No. 8-32, Cúcuta, NSA. Te: 2035. L.P: Mgr: C. Pérez A.

62) Aéreo 617, Armenia, Cal. Te: 1488. L.P: Dir: Miss M. Villegas.

63) Cr. 11 No. 11-59, Sogamoso, Boy.

64) Cl. 43 No. 72-14, Barranquilla, Atl. Te: 47911. L.P: Mgr: E. Valencia C. FM: 95.5MHz.

65) Aéreo 9291, Bogotá, Cun. Te: 349580. L.P: Mgr: S. Ospina T. FM: 96.5MHz.

66) Aéreo 1178, Medellin, Ant. L.P: Mgr: R. Sadarriaga.

67) Cr. 1 No. 18-39, Cali, VDC. Te: 87556. L.P: Mgr: R. Payán S. FM: 96.5MHz.

68) Cr. 7 No. 8-58, El Espinal, Tol. Te: 240. L.P: Mgr: J. Pava Navarro. Dir. Tec: C. Estevez. FM: 94.9MHz. V. by letter. Rec. acc.

69) Cr. 36 No. 21-50, Bucaramanga, San. Te: 25418. L.P: Mgr: R. Pérez. FM: 90.5MHz.

70) Tunja, Boy. Te: 2909. L.P: Dir: E. Rodriguez P. FM: 92.1MHz.

71) Aéreo 2, Cartago, VDC. Te: 2125. L.P: Mgr: A. Escobar M. Dir. Arts: C. E. Pérez L. V. by letter.

72) Aéreo 2010, Barranquilla, Atl. Te: 43100. L.P: Mgr: L. Otálora G. V. by letter (reported on 1135kHz).
73) Transv. 6 No. 27-10, Bogotá, Cun. Te: 349867. L.P: Mgr: J. A. Vanegas R. Tec. Dir: J. Rios. FM: 90.1MHz.
74) Av. Colombia 56C-11, Medellin, Ant. Te: 459902. L.P: Mgr: J. Restrepo. FM: 94.5MHz.
75) Cr. 6 No. 12-71, Cali, VDC. L.P: Mgr: J. Giraldo S.
76) Apt. Aéreo 51, Valledupar. Te: 2119. L.P: Mgr: M. Pineda B. V. by letter. Rec. acc.
77) C. 14 No. 11-19, Girardot, Cun. Te: 3377. L.P: Mgr: C. Cifuentes G.
78) Aéreo 503, Magangué, Cun. Te: 238. Cable: Onrio. L.P: Mgr: R. Cure A. V. by letter. FM: 96.1MHz.
79) Aéreo 19, Ocaña, Nsa. Te: 587. L.P: Dir. Gen: J. Cabrales R. FM: 89.3MHz. V. by letter. Rec. acc.
80) Edif. Banco Caftero, Armenia, Cal. Te: 1200. L.P: Mgr: L. Dávila M. FM: 96.5MHz.
81) Aéreo 148, Monteria, Cor. (reported on 1156kHz). FM: 93.7MHz.
82) Cr. 11 No. 15-31, Ciénaga, Mag. V. by letter. Rec. acc.
83) Cr. 7 No. 17-14, Bogotá, Cun. Te: 429022. L.P: Mgr: A. Castaño C. Dir. Prgr: G. Rueda C. V. by letter. FM: 91.3MHz.
85) Ca. 6 No. 4-59, Neiva, Hui. Te: 5280. Cable: Colosal. L.P: Dir: R. Navarro D. Silva S. FM: 92.5MHz. V. by letter.
86) Cr. 50 No. 52-75, Medellin, Ant. Te: 414765. L.P: Mgr: J. Garcia L. FM: 96.9MHz.
87) Aéreo 126, Tuluá, VDC. Te: 2855. L.P: Mgr: E. Gómez H. FM: 92.5MHz.
88) Aéreo 335, Manizales, Cal. Te: 2423. L.P: Mgr: W. Vargas G.
89) Aéreo 1100, Bucaramanga, San. L.P: Mgr: N. Serrano G. FM: 97.7MHz.
90) Aéreo 23-64, Barranquilla, Atl. Te: 42880. Cable: Vozcosta. L.P: Mgr: G. Forero S. FM: 94.9MHz. V. by letter.
91) Aéreo 9467, Bogotá, Cun. Te: 415036. L.P: Mgr: J. Garcia C. FM: 94.9MHz.
92) Cr. 5 No. 12-13, Cartago, VDC.
94) Aéreo 2075, Villavicencio, Met. Te: 2279. L.P: Mgr: B. Otero L. V. by letter. FM: 94.9MHz.
95) Quibdo, Cho. L.P: Mgr: A. Sanchez B.
96) Cr. 6 No. 7-55, Fusagasugá, Cun. Te: 2018. L.P: Mgr: A. Useche R.
97) Aéreo 4552, Medellin, Ant. Prgr: Soft music.
98) Aéreo 6015, Cali, VDC. L.P: Mgr: H. E. Velasco.
99) Aéreo 1300, Cúcuta, Nsa. Te: 4390. L.P: L. E. Mantilla S. FM: 90.1MHz. V. by letter.
100) Aéreo 89, Pereira, Cal. Te: 8872. L.P: Mgr: R. Ilián B. FM: 95.3MHz.
101) Cl. 30, Ave. 3a, Monteria, Cor. L.P: Dir. Gen: A. Pupo V. Dir. Tec: M. Agresotz. V. by letter. FM: 96.7MHz.
102) Cl. 72 No. 43-63, Barranquilla, Atl. Te: 41844. L.P: Mgr: J. Tabou L. V. by letter.
103) Aéreo 10951, Bogotá, Cun. L.P: Gen. Mgr: A. Montoy G. FM: 92.1MHz.
105) Ca. 4a No. 4-79, Neiva, Hui. Te: 3199. Cable: Radioneiva. L.P: St. Mgr: R. Azuero M. Dir. Prgrs: G. Hernández R. Dir. Tec: L. Carlos C. D.Prgr: N: 12.00, 17.30, 00.00, 02.00. V. by letter. Rec. acc. FM: 92.1MHz.
106) Cr. 51 No. 58-62, Medellin, Ant. FM:97.3MHz.
107) Tunja, Boy. L.P: Mgr: A. J. Piedrahita C.
108) Aéreo 5400, Cali, VDC. L.P: Mgr: A. J. Ospina P. (reported on 1235kHz).
109) Aéreo 556, Armenia, Cal.
110) Edif. Santa Fé, Barrancabermeja, San. FM: 88.9MHz.
111) Cl. 5, Cr. 2, Buenaventura, VDC. FM: 92.0MHz.
112) Aéreo 154, Barranquilla, Atl. Te: 10120.
113) Aéreo 14400, Bogotá, Cun. Te: 603106. L.P: Mgr: L. E. Sandoval R.
114) Corozal, Nsa. Te: 231. L.P: Mgr: N. Martelo.
115) Aéreo 519, Cúcuta, NSA.
117) Aéreo 1244, Medellin, Ant. FM: 92.1MHz.
119) Aéreo 4882, Cali, VDC. Te: 711070. L.P: Dir. Gen: C. Rey P. Dir. Tec: D. Benitez. FM: 95.7MHz. V. by QSL-card. Rec. acc.
120) Edif. Hotel Morgan, San Andrés Isla, Sap. L.P: Mgr: S. Duque.
121) Cl. 16, Cr. 16, Duitama, Boy. L.P: Dir. Gen: O. de Pineros. Dir. Tec: L. Rincón. FM: 91.7MHz.
122) Valledupar, Mag. L.P: Mgr: A. Leon.
123) Aéreo 520, Pereira, Cal. FM: 97.3MHz.
124) Aéreo 1337, Bucaramanga, San.
125) Aéreo 246, Cartagena, Bol.
126) Ciénaga, Mag (reported on 1270kHz). FM: 93.3MHz.
127) Cr. 19 No. 16-50, Pasto, Nar. Te: 2947. L.P: Mgr: A. Gonzáles.
128) Aéreo 7766, Bogotá, Cun. Te: 457073. FM: 89.3MHz. (reported on 1282kHz) (V).
129) Barbosa, San. L.P: Dir: R. Fonseca (reported on 1285kHz).
130) Pitalita. L.P: Mgr: F. P. de Castro. V. by letter or QSL-card. Rec. acc.
131) Cr. 3 No. 15-80, Cali, VDC. L.P: Mgr: R. Angulo. (reported on 1295kHz).
132) Cra. 9 No. 8-76, Garagoa, Boy. L.P: Mgr: H. Gómez R. V. by letter. Rec. acc.
133) Banco del Comercio, 4° Piso, Villavicencio, Met. Te: 2386. L.P: Mgr: N. G. Padilla P. Dir. Tec: A. Niño. D.Prgr: N: 11.30, 17.30, 22.00. V. by QSL-card. Rp. Rec. acc.
134) Cl. 15 No. 11A-54, Girardot, Cun.
135) Maicao, Gua. L.P: Mgr: T. Domingo B.
136) Aéreo 4300, Medellin, Ant. L.P: Mgr: M. F. Eusse. Dir. Tec: H. Cárdenas. FM: 97.3MHz, 1kW (HJBC = Cra. 7a, No. 21-83, Bogotá; R. Estrella, Edif. Lujimenez, Armenia).
137) Edif. Banco Popular, Turbo Apartado (reported on 1308kHz).
138) Cr. 15 No. 15-32, Santa Rosa de Cabal, Cal. Te: 1044. L.P: Mgr: 3. Hurtado C.
139) Aéreo 223 Bucaramanga, San. Te: 28088. L.P: Mgr: R. Pérez. FM: 88.1MHz.
140) Vicente Garcia 617, Cartagena, Bol. Te: 16277. L.P: Mgr: G. Tobón M.
141) Aéreo 231, Barranquilla, Atl. L.P: Mgr: C. Vassallo M. V. by letter (reported on 1315kHz). FM: 97.7MHz.
142) Monteria, Cor (reported on 1300kHz). FM: 91.5MHz.
143) Cl. 19 No. 8-48, Bogotá, Cun. Te: 418659.
145) Cr. 7 No. 3-24, Neiva, Hui.
147) Palmira, VDC. L.P: Mgr: E. Luna y S.
148) Aéreo 4910, Medellin, Ant. Te: 411841. L.P: Mgr: C. Cardona V. (Reported on 1318kHz). FM: 93.3MHz.
150) Aéreo 1771, Cartagena, Bol. L.P: Gen. Mgr: G. Ortiz M. (reported on 1328kHz).
151) Cr. 18 No. 8-54, Pereira, Cal. L.P: Mgr: A. Buitrago G. V. by QSL-card (reported on 1337kHz). FM: 96.9MHz.
152) Aéreo 1402, Bucaramanga, San. L.P: Mgr: A. Vázquez P. V. by letter (reported on 1346kHz).
153) Cúcuta, Nsa. L.P: Mgr: A. Monroy G.
154) Aéreo 276, Barranquilla, Atl.
155) Cr. 42 No. 13-94, Bogotá, Cun. Te: 479167. L.P: Mgr: P. Ujueta. FM: 90.9MHz.
156) Fco. Porras 20-37, Sincelejo, Bol. L.P: Mgr: R. Hernández. V. by letter (reported on 1322kHz). FM: 95.9MHz.
157) Aéreo 390, Pasto, Nar. Te: 1854. Cable: Radionariño. L.P: Mgr: C. Acosta O. D.Prgr: N: 11.00, 12.00, 17.30, 18.00, 00.00. V. by letter. Rec. acc.
158) Pasaje Comercial Astoria 105, Bello, Ant. L.P: Adm: H. Pérez S.
159) Aéreo 2145, Cali, VDC. L.P: Mgr: V. A. Gallon Tamayo.
160) Chaparral, Tol. L.P: Mgr: J. E. Gutiérez.
161) Ibague, Tol. L.P: Mgr: F. Espinosa G.
162) Puerto Boyacá (reported on 1354kHz).
163) Apt. Aéreo 2075, Villavicencio, Met.
164) Cr. 4a No. 8-16, Anserma. L.P: Dir: E. Giraldo A. Dir. Tec: A. Arias. V. by letter. Rec. acc.
165) Socorro, San. L.P: Mgr: Mario G. Rojas V. V. by letter or QSL-card. Rec. acc. (reported on 1367kHz).
166) Cl. 24 No. 18-31, Sincelejo, Bol. Te: 2992. L.P: Mgr: N. Miserque A. (reported on 1370kHz).
167) Cl. 9, Av. 3, Cúcuta, Nsa. L.P: Mgr: C. Ramirez P.
168) Aéreo 320, Barranquilla, Atl. (reported on 1360kHz). FM: 91.3MHz.
169) Aéreo 535, Popayan, Cau. Te: 2371. Cable: Vozcauca. L.P: Mgr: L. Burkhardt, Dir. Tec: O. Burkhardt. V. by letter.
170) Aéreo 20333, Bogotá, Cun. Te: 321768. L.P: Mgr: J. J. Molina R. Dir. Tec: R. Orozco FM: 94.7MHz. V. by letter. Rec. acc.
171) Aéreo 201, Palmira, VDC. Te: 23344. L.P: Mgr: J. Bejarano D. Dir. Tec: D. Benitez V.
172) Cr. 3 No. 2-55, La Dorada, Cal. Te: 7171. L.P: Mgr: A. Suárez.
173) Aéreo 192, Neiva, Hui. Te: 4568. L.P: Dir. Gen: C. E. Salas P. Dir. Tec: R. Sierra R. FM: 94.1MHz. V. by letter. Rec. acc. Rp.
174) Aéreo 3845, Santa Bárbara.
175) Aéreo 284, Manizales, Cal.
176) Edif. Gas. Hipinto, Barrancabermeja, San. Te: 2149. FM: 93.3MHz.
177) Aéreo 403, Barranquilla, Atl.
178) Edif. Banco del Comercio, Cúcuta, Nsa. L.P: Dir: L. E. Mantilla S. FM: 92.1MHz.
179) Ca. 11, Cr. 6 No. 10-60, Ipiales, Nar. Te: 21-92. L.P: Mgr: E. Concha S. Dir. Rec: C. Alirio C. FM: 90.9MHz. V. by QSL-card. Rec. acc.
180) Cr. 7 No. 6-10, Bogotá, Cun. Te: 462712. L.P: Mgr: C. O. S. Augustin.
181) Edif. Barquil, Cereté. L.P: Mgr: M. Guzmán (reported on 1395kHz). FM: 88.9MHz.
182) Florencia, Caq. (reported on 1432kHz).
183) Cr. 43 No. 47-96, Medellin, Ant. L.P: Dir: J. Montoya T. FM: 96.5MHz.
184) Cr. 13 No. 5-84, Buga, VDC.

185) Aéreo 536, Honda, Tol. Te: 1440. L.P: Mgr: F. Soto. V. by letter and pennant.
186) Aéreo 725, Calarcá (reported on 1414kHz).
187) Aéreo 1771, Cartagena, Bol. Te: 13405. L.P: Mgr: E. Emiliani R.
188) Aéreo 335, Manizales, Cal. L.P: Mgr: G. Aristizábal E.
189) Aéreo 1240, Santa Marta, Mag. Te: 330. L.P: R. Morales. FM: 96.5MHz (reported on 1428kHz).
190) Cr. 7 No. 9-92, Pamplona, Nsa. Te: 420. L.P: Mgr: L. Aldana H.
191) Cr. 5 No. 5-81, Popayán, Cau.
192) Aéreo 16029, Bogotá, Cun. Te: 478763. L.P: Dir. Gen: Rev. F. J. V. Echeverri S. J. Dir. Tec: I. Morales. Dir. Prgr: M. Palacio D. D.Prgr: E 16.45, 00.00; F 02.55. V. by letter.
193) Aéreo 3, Riohacha, Gua. L.P: Mgr: J. I. Vives F.
194) Aéreo 130, Tuluá.
195) Edif. Raad, Ibagué, Tol. L.P: Mgr: L. E. Ramírez R. V. by letter.
196) Cr. 11 No. 10-05, Sogamoso, Boy. (reported on 1445kHz).
200) Vélez, San. L.P: Mgr: R. Correa P.
201) Sincelejo, Bol. Te: 2072. Cable: Radiosincelejo. L.P: Mgr: G. Gómez P. FM: 97.3MHz.
202) Cr. 7a No. 3-13, Pamplona, Nsa. Te: 366. L.P: Dir. Tec: R. Carvajal. V. by letter.
203) Ca. 15 No. 5-19, Fundación, Mag. Te: 241. L.P: Dir. Gen: H. de Vega G. Dir. Tec: M. Londoño. V. by letter. Rec. acc. Rp.
204) Aéreo 10900, Bogotá, Cun. L.P: Mgr: E. Páez E. FM: 91.7MHz. V. by letter.
205) Aéreo 516, Pasto, Nar. Te: 2684 (reported on 1462kHz).
206) Cl. 50 No. 56C-11, Medellín, Ant. Te: 437028. L.P: Mgr: J. Restrepo.
207) Cl. 6 No. 10-49, Cerrito. Te: 444. L.P: Mgr: R. Gómez P. (reported on 1437kHz).
209) Aéreo 221, Pereira, Cal. Te: 9901. L.P: Mgr: R. Ilián B. (reported on 1475kHz). FM: 89.3MHz.
210) Aéreo 322, Bucaramanga, San. Te: 25-666. L.P: Dir. Gen: A. Fonseca C. Dir. Tec: E. Blanco P. V. by letter. Rec. acc.
212) Aéreo 14465, Bogotá, Cun. L.P: Mgr: C. J. Semeraro. FM: 95.9MHz.
213) Aéreo 2647, Barranquilla, Atl. L.P: Mgr: I. Turek.
214) Cl. 7, Cr. 7, Garzón Hui. (reported on 1480kHz).
217) Cr. 7 No. 5-29, Fusagasugá, Cun. Te: 2000.
218) Aéreo 4350, Medellín, Ant. FM: 90.9MHz.
219) Aéreo 432, Bucaramanga, San. Te: 27315. L.P: Dir: G. Alyala O. (reported on 1505kHz).
220) Aéreo 617, Armenia, Cal. L.P: Mgr: E. Campo Z. FM: 89.7MHz.
221) Aéreo 11279, Bogotá, Cun. Te: 481620. L.P: Mgr: H. Flórez. FM: 93.9MHz.
222) Aéreo 219, Barranquilla, Atl. L.P: Mgr: L. Ortega P. (reported on 1515kHz).
223) Cr. 12 No. 4-27, Popayán, Cau. Te: 2409. L.P: Mgr: M. González M.
224) Chiquinquirá, Boy. L.P: Dominican Fathers.
226) Cr. 50 No. 42-11, Sevilla, VDC. FM: 97.7MHz.
227) Cl. 11, Cr. 15, Armero, Bol. Te: 211. L.P: Mgr: C. Cifuentes M.
228) Turbaco, Bol (reported varying 1540-1550kHz).
230) Aéreo 441, Manizales, Cal. Te: 51-800. L.P: Dir. Gen: M. J. Sanz B. V. by letter. Rec. acc.
231) Barrancabermeja, San. Te: 2590. L.P: Dir. Gen: E. Garcia R. Dir. Tec: R. Rueda G. FM: 92.7MHz. V. by letter. Rec. acc. Rp.
232) Pto. Colombia, Atl. L.P: Mgr: P. Elias B.
233) Aéreo 554, Magangué. L.P: Mgr: J. Raad. FM: 88.9MHz.
235) Cr. 7 No. 22-44, Bogotá, Cun. FM: 88.9MHz.
238) Aéreo 149, Tulká, VDC. L.P: Mgr: E. Gomez H. (reported on 1555kHz).
239) Cr. 30 No. 29-63, Medellín, Ant.
240) Cr. 21 No. 21-49, Manizales, Ant. L.P: Mgr: G. Elorea G. FM: 90.1MHz.
241) San José de Miranda, Santander del Sur.
243) Aéreo 89, El Banco, Mag. (reported on 1576kHz). FM: 91.5MHz.
244) Aéreo 3266, Medellín, Ant.
246) Aéreo 768, Armenia, Cal. L.P: Dir. Gen: N. Sabogal V. V. by letter. Rec. acc. FM: 93.3MHz.

ECUADOR

L.T: GMT — 5 h — Pr.L: Spanish Quechua — E.C: a/c 60 (yes).

DIRECCION DE TELECOMUNICACIONES DEL ECUADOR
ADDR: Casilla 3066, Quito. Cable: Dirgentel — L.P: Dir. Eng: E. Marmol C.

ASOCIACION ECUATORIANA DE RADIODIFUSION (AER)
ADDR: Luis Felipe Borja 505, Quito. Te: 522520 — L.P: Pres: E. Ceyallos C.
STATIONS: Call HC ---.
Medium Waves: ° = shortwaves.

	Call	kHz	kW	Name and h. of tr.
1)	FG2	540	10	R. Tropicana, Guayaquil: 24 h
2)	EGI	550	5	R. Ecuatoriana, Quito: 10.45-05.00
3)	RM2	560	10	R. Mambo: 11.00-05.00
4)	RM1	570	1	R. Musical, Quito: 24 h
5)	PC2	580	0.5	R. El Tiempo, Guayaquil
6)	SP1	590	1	R. Minutera, Quito: 11.00-05.00
7)	RL6	°600	1	R. Libertador, Sasquisili: 10.00-18.00, 20.00-03.00
8)	PC2	605	1	R. Huancavelica, Guayaquil
9)	JJ2	°610	0.5	R. Punto Verde, Quevedo
10)	MJ1	°620	1	R. Maranõn, Quito: 12.00-03.00
11)	AF3	625	0.3	R. Fenix, Zaruma
12)	RF4	°625	1	R. Canal Manabita, Portoviejo
13)	HA2	°635	5	Ondas Quevedañas, Quevedo: 23.00-03.00
14)	GO3	640	1.5	R. Canal Estelar, Santa Rosa
15)	XY1	°640	10	R. Nac. del Ecuador, Quito: 11.00-05.00
16)	RM4	°650	5	R. Visión de Manta, Manta
17)	MU2	655	5	R. Reporter, Guayaquil
18)	LG2	660	10	R. Carrousel, Guayaquil
19)	FZ1	°660	1	R. Voz y Visión, Quito
20)	FM2	665	0.45	R. Ventanas, Ventanas
21)	FO2	665	10	R. Metro, Guayaquil
22)	SJ1	°670	1	R. Javier, Quito: 11.00-15.00, 16.45-17.30, 22.00-03.00
23)	VP2	°675	10	R. Sistema Atalaya, Guayaquil: 10.00-13.30, 01.00-04.55
24)	WC1	680	0.2	R. Cristóbal Colón, Pinampiro: 12.00-16.00, 00.00-03.00
25)	FA4	°690	0.5	La Voz de Manabi, Portoviejo: 11.00-05.00
26)	RS2	695	1.75	R. Sucre, Guayaquil: 12.00-04.00
27)	JB	°700	30	La Voz de los Andes, Quito: 11.00-04.00
28)	AP4	715	1.3	La Voz de Portoviejo, Portoviejo
29)	IC1	720	0.4	R. Municipal, Quito: 17.00-19.00, 21.00-04.00
30)	FA2	°730	10	R. Guayaquil: Guayaquil: 24 h
31)	SE4	735	0.25	R. Libertad, Chone: 24 h
32)	GB1	740	0.5	R. Melodia, Quito: 24 h
33)	CT2	750	0.5	R. Centenario, Guayaquil: 11.00-03.00
34)	RQ1	°760	5	R. Quito: Quito: 10.45-15.00, 17.00-18.00, 23.00-04.30
35)	MF2	770	5	R. la Prensa, Guayaquil: 11.00-03.00
36)	EE1	°775	1.5	R. Nac. Espejo, Santo Domingo Cds: 23.00-03.00
37)	RG4	780	0.3	R. Umiña, Manta: 10.30-04.00
38)	AA1	785	0.2	R. Noticia, Quito: 17.00-20.00, 00.00-04.30
39)	AM4	°795	1	La Voz de Valle, Portoviejo: 11.00-13.00, 16.00-04.00
40)	DE2	°800	10	R. Bolivar, Guayaquil: 12.00-05.00
41)	FV1	805	1	R. Canal Tropical, Quito: 11.00-04.00
42)	VT2	810	0.2	La Voz de Chone: 11.15-04.30
43)	OF4	815	2	R. Atalaya, El Milagro: 23.00-03.00
44)	GB2	825	1	R. Gill, Guayaquil
45)	RP5	830	0.5	R. Promoción, Riobamba
46)	RP5	°835	1	R. Punto 63, Quito
47)	EM6	°845	1	R. Costa Azul, Portoviejo: 11.00-05.00
48)	ET6	845	0.8	R. El Heraldo, Ambato: 10.45-03.00
49)	AJ2	850	1	R. Católica, Guayaquil: 13.30-19.00, 22.00-02.30
50)	GB7	855	0.5	R. Nac. Espejo, El Puyo
51)	FF1	°860	1.2	R. Jesus de la Gran Poder, Quito: 11.00-14.00, 22.30-03.00
52)	OA6	°864	0.4	R. Pillaro, Pillaro: 11.30-19.30, 21.00-03.30
53)	YN2	870	10	R. Cristal, Guayaquil: 09.00-05.00
54)	RP1	°880	0.5	R. Católica, Quito: 10.35-15.00, 17.00-18.00, 22.00-03.00
55)	TL5	890	0.5	Ondas Chimborazo, Riobamba: 11.00-05.00
56)	GC2	895	0.3	La Voz del Rio Guayas, Guayaquil: 14.00-04.00
57)	RJ1	900	0 5	R. Gemas, Quito: 10.50-05.05

	Call	kHz	kW	name and h. of tr.
58)	EV5	°900	3	R. Splendit, Cuenca: 11.30-04.00
59)	BO2	905	1	R. Espectaculo, Guayaquil
60)	GR5	°910	1	R. Surcos, Guaranda: 12.00-04.00
61)	RU3	°915	1	Ondas Orenses, Machala: 13.00-03.30
62)	CM1	°920	5	R. Colón, Quito
63)	VL2	925	2	R. Canal Central, Guayaquil: 24 h
64)	IM1	930	0.3	La Voz Imbabura, Ibarra: 12.00-19.00, 20.00-06.00
65)	UE5	935	0.5	Union Evangélica, Misionera, Colta: 11.00-24.00
66)	HT1	940	0.5	R. Kronos, Quito
67)	DE2	945	10	R. Ifesa, Guayaquil: 13.30-04.00
68)	JM1	950	0.5	R. Un Mundor Mejor, Atuntaqui: 14.00-17.30, 23.00-02.30
69)	JX6	°955	1.5	R. La Voz del Agoyan, Baños: 10.00-03.30
70)	MC2	955	0.25	R. Babahoyo: 23.00-03.00
71)	NC1	960	1	R. Cosmopolita, Quito: 13.00-03.00
72)	OT1	°965	3	R. Zaracay, Sto. Domingo Cds: 10.00-03.00
73)	MB1	970	0.35	R. Continente, Ibarra: 11.30-20.00, 22.00-04.00
74)	PT5	970	3	La Voz del Perpetuo Socorro, Cuenca: 12.00-04.00
75)	AW2	975	10	Ondas del Pacifico, Guayaquil: 11.00-05.00
76)	JI5	980	0.5	R. El Prado. Riobamba: 11.00-04.30
77)	AU5	985	0.5	R. América, Cuenca
78)	GH1	°990	3	R. Tarqui, Quito: 10.45-04.00
79)	EW2	995	10	R. Suceso, Guayaquil: 12.00-04.00
80)		1000	0.5	R. Visión, Cuenca
81)	RC4	1010	0.7	R. Cenit, Manta: 11.00-04.00
82)	VS2	1010	2	La Voz de Surburbio, Guayaquil
83)	LV1	°1020	0.6	R. El Sol, Quito: 11.00-05.00
84)	FS	°1020	1	R. Federación, Sucúa, Sucúa
85)	TO5	1025	0.25	La Voz del Pueblo, Riobamba: 13.00-04.00
86)	RR2	1030	1	R. Rocafuerte, Guayaquil: 12.00-04.00
87)	CV1	1035	0.5	R. Independencia, Quito
88)	CW1	1040	3	La Voz del Valle, Machachi: 11.00-19.00, 22.00-03.00
89)	ER5	°1045	1	Escuelas Radiofónicas Populares, Riobamba: 16.30-03.00
90)	AJ2	°1050	10	R. Dif. del Ecuador, Guayaquil: 11.00-05.00
91)	AC6	1060	0.75	Ecos del Pueblo, Sasquisili: 12.00-19.30, 22.00-03.00
92)	VP1	1070	0.5	R. Libertad, Quito: 11.00-03.00
93)	GB6	1075	0.5	R. Nac. Espejo, Ambato: 11.00-05.00
94)	FD2	1080	5	R. Noticia, Guayaquil: 24 h
95)	AA4	1085	1	R. Eco, Manta: 10.00-04.00
96)	MG1	1090	0.25	R. Fantasia, Quito: 11.00-01.00
97)	GR6	1095	0.4	R. Rey, Latacunga: 12.00-04.00
98)	FW2	1100	5	R. Alegria, Guayaquil
99)	RR5	1100	1.5	R. Reloj, Cuenca: 13.00-04.00
100)	RP6	1105	0.5	R. Pelileo, Pelileo: 11.30-13.30, 23.30-03.30
101)	EG1	°1110	1	R. Exitos, Quito: 11.00-05.00
102)	LA2	1115	0.2	R. América, Guayaquil: 11.00-05.00
103)	EB1	1120	1	Ecos del Montufar, San Gabriel
104)	GM7	°1120	5	R. Rio Amazonas, Macuma: 11.00-13.00, 23.00-01.00
105)	AO5	1120	0.25	La Voz de Tomebamba, Cuenca: 11.45-04.00
106)	IR1	1125	1	R. Inti-Raimi, Pomasqui: 10.30-04.00
107)	PV6	1125	0.3	R. Centro, Ambato: 11.00-05.00
84)	SK	°1135	5	R. Federación Sucúa, Sucúa
108)	FB2	°1140	0.15	R. Condor, Guayaquil
109)	RG1	1145	1.2	R. Nuevo Mundo, Quito: 10.45-04.00
110)	CZ5	1150	0.5	La Voz de Riobamba: 12.00-04.00
111)	DW4	°1155	0.5	R. Cenit, Portoviejo: 11.00-13.00 15.00-04.30
112)	CP1	1160	1	R. Presidente, Quito
113)	VR3	1160	2	R. Via, Machala: 11.00-03.00
114)	UE6	1165	1	R. Runatacuyak, B. Quevedo: 09.30-12.00, 20.45-23.00
115)	VJ5	1170	0.25	R. Central, Riobamba: 11.00-23.00, 02.00-04.00
116)	CV5	1175	0.3	La Voz de los Quatro Rios, Cuenca
117)	LR1	1180	0.5	R. Central, Quito: 11.00-05.00
118)	RT1	1180	0.3	R. Tricolor, Mira: 10.30-18.00, 22.00-04.00
119)	VN7	°1185	1	La Voz del Napo, Tena
120)	BE2	1190	0.3	R. Excelsior, Guayaquil: 13.00-04.00
121)	CS1	1195	0.5	R. Turismo, Sangolqui: 11.00-18.00, 22.00-03.00
122)	RF6	1195	0.25	R. El Sol, Pujili
123)	RM5	°1200	2	R. El Mercurio, Cuenca: 11.00-05.00
124)	RQ2	1205	0.3	La Voz del Trópico, Quevedo: 12.30-04.00
125)	CU1	°1210	0.25	R. América, Quito: 11.00-05.00
126)	SF5	1215	0.5	R. Alerta, Riobamba: 17.15-19.00
127)	BJ2	°1220	0.25	R. El Mundo, Guayaquil: 13.00-19.30, 21.45-04.05
128)	JM6	°1225	0.6	R. Sira, Ambato: 11.00-23.30, 01.00-04.00
129)	RI1	1230	0.22	Centro Radiofónica de Imbabura, Ibarra: 11.30-03.30
130)	MB5	°1235	0.5	R. Popular Independiente, Cuenca: 11.00-20.00, 23.00-04.00
131)	LA5	1240	0.5	R. Riobamba: 12.00-04.00
132)	AF1	°1245	1	R. Metropolitana, Quito: 11.00-22.00
133)	RB2	1250	1	La Voz de Litoral, Guayaquil: 11.00-04.00
134)	EM1	1255	1	Ondas Charchenses, Tulcan: 11.30-04.00
135)	BO6	1260	0.5	R. Cine, Ambato
136)	WN1	°1260	1	La Voz del Triunfo, Sto. Domingo Cds: 23.00-03.00
137)	JE5	°1265	5	Ondas Azuayas, Cuenca: 11.30-05.00
138)	UM2	1270	0.25	R. Universal, Guayaquil: 24 h
139)	AB1	°1280	0.25	La Voz de la Democracia, Quito: 11.30-04.30
140)	VN4	1285	1	La Voz del Sur de Manabi, Jipijapa: 11.00-04.00
141)	MV5	°1290	0.5	La Voz del Rio Tarqui, Cuenca: 10.00-05.00
142)	MS1	1295	0.4	R. Pacifico, San Isidro: 11.00-19.00, 22.00-04.00
143)	VM6	°1295	0.5	R. 11 de Noviembre, Latacunga: 12.00-04.00
144)	DC2	1300	1	R. Cenit, Guayaquil: 11.00-04.00
32)	GB1	°1310	10	R. Nac. Espejo, Quito: 24 h
145)	CP3	1315	0.25	La Voz de el Oro, Pasaje: 13.00-19.00, 23.00-04.00
146)	JD6	1320	0.5	R. Continental, Ambato: 11.00-03.45
147)	FR2	1325	3	R. Guayaquil, Babahoyo: 11.00-19.00, 23.00-04.00
148)	LW5	1330	0.45	R. Canal 1330, Cuenca: 12.00-03.00
149)	RV3	1330	1.5	R. Nacional el Oro, Pasaje
32)	PX1	1335	0.3	R. Sport, Quito: 11.00-06.00
150)	MC7	°1340	1	La Voz de los Aucas, F. Orellana
151)	RB5	1340	0.25	A. Trece de Noviembre, Alausi
152)	RT6	°1345	5	R. Paz y Bien, Ambato: 09.00-03.00
153)	PZ1	°1350	0.3	R. Rumichacha, Tulcán
154)	PV2	1350	0.3	R. Reloj, Guayaquil: 24 h
155)	EJ1	1360	0.3	R. Corporación, Quito
156)	HA2	1370	0.25	La Voz del Rio Quevedo, Quevedo: 11.00-14.00, 16.00-20.00, 22.00-05.00
157)	JR6	1375	1	R. Mera, Ambato: 12.00-03.00
158)	VM2	1375	5	La Voz del Milagro, El Milagro: 11.00-05.00
159)	EA5	1390	0.4	Ecos del Azuay, Cuenca: 11.00-05.00
160)	VE4	°1395	2	La Voz de Esmeraldas: 10.00-14.00, 17.00-19.00, 22.00-05.00
161)	FL2	1400	0.2	R. Continental, Guayaquil: 12.00-19.00, 22.00-04.00
162)	BS4	°1400	0.3	R. Tropical, Manta: 10.30-04.00
163)	JN1	1410	0.3	R. El Tiempo, Quito: 11.00-06.00
164)	RJ4	1410	0.25	R. Juventud, El Carmen: 11.00-17.00, 23.00-05.00
165)	CV6	1420	0.3	R. Nuevo Exitos, Salcedo: 12.00-14.00, 17.00-19.00, 23.00-03.00
166)	MB2	1425	0.5	R. Portefia, Guayaquil
167)	BX1	°1430	1.5	R. Casa de la Cultura, Quito: 11.00-15.10, 17.00-19.45, 23.00-04.00
168)	OB5	1440	2	Ondas del Volante, Azogues: 11.00-19.00, 22.00-04.00

	Call	kHz	kW	name and h. of tr.
169)	DF1	°1440	0.6	La Voz del Norte, Ibarra: 11.30-04.00
170)	SC5	°1445	1	La Voz del Chofer, Riobamba: 12.00-04.00
171)	AQ2	1450	0.25	R. Nueva Ortiz, Guayaquil: 12.00-04.00
32)	GM1	°1460	1	R. Reloj, Quito: 11.00-06.00
172)	ET4	1465	0.2	R. El Triunfo, Esmeraldas: 11.00-05.00
173)	IC6	1465	0.25	R. Nuevo Horizontes, Latacunga
174)	EC1	1470	1	Ecos del Cayambe, Cayambe: 11.00-04.00
175)	LT2	1470	1	La Voz de Babahoyo, Babahoyo
176)	EJ3	1475	0.22	Ecos de Jambeli, Pto. Bolivar: 11.00-04.00
177)	JV4	1480	1	La Voz de Jipijapa, Jipijapa: 24 h
178)	RM6	1480	1	R. Musical, Ambato: 11.00-05.00
179)	EE2	1485	1	R. Musical, Guayaquil
180)	VZ2	1490	0.25	R. Atalaya, El Triunfo
181)	MO1	°1490	1	R. Atahualpa, Quito: 10.45-04.35
182)	HG2	1495	0.5	R. Central, Vinces: 11.00-21.00, 23.00-05.00
183)	WN5	1495	0.4	R. Puruha, Riobamba: 12.00-04.00
184)	EB4	°1500	1	R. Manta, Manta
185)	RQ1	1500	1	R. Otavalo, Otavalo: 13.00-18.00, 23.00-03.00
186)	LC3	°1505	0.2	R. Centinela del Sur, Loja: 12.00-14.00, 17.00-03.00
187)	AO2	1510	1	R. Exito, Guayaquil
188)	VR1	1520	1.2	R. Cordillera, Quito: 11.30-04.00
189)	CM2	1530	0.25	La Voz de Urdaneta, Urdaneta
190)	ME1	1530	0.5	R. Circuito Armónica Urbes Unidas, Quito
191)	MZ6	1530	0.5	La Voz de el Dorado, Pelileo
192)	OC5	°1530	5	Ondas Cañaris, Azogues: 10.00-14.00, 23.00-04.00
193)	MH6	1535	0.5	Org. Radiofónica del Cotopaxi, Latacunga: 12.00-15.00, 16.00-20.00, 22.00-04.30
194)	HG3	1540	1.5	R. El Sol, Machala: 12.00-04.00
195)	AA3	1545	0.25	R. Gauzanama, Gauzanama
196)	CU2	1545	0.5	R. Horizontes, Guayaquil
197)	DP1	1545	0.5	R. El Volante, Quito
198)	EI6	°1550	0.5	R. Cosmopolitana, Ambato: 12.00-03 30
199)	AD5	1550	0.25	La Voz del Valle, Sta. Isabel
200)	TR3	1555	0.5	La Voz del Guabo, El Guabo: 11.00-13.00, 17.00-19.00, 23.00-05.00
201)	CS2	1560	0.5	Centro Radiofónica Sideral, Daule: 13.00-05.00
202)	RS4	1560	0.25	R. Sensación, Quininde: 11.00-06.00
203)	VI5	1560	0.25	La Voz de Ingapirca, Cañar
10)	AP1	°1570	0.35	R. Marañon, Quito: 12.00-03.00
204)	AA3	1580	0.25	Ondas de Paltos, Catacocha
205)	AE5	1580	0.25	Ecos del Pertete, Giron
206)	AI6	1580	0.3	R. La Voz de los Llanganates, Pillaro: 11.00-14.00, 17.30-20.00, 23.30-02.00
207)	VA4	°1580	5	La Estación de la Alegria, Esmeraldas: 11.00-05.00
208)	RZ1	1590	0.5	Escuelas Radiofónicas, Tabacundo
209)	MB2	1590	0.35	R. Panamericana, Naranjal
210)	PJ2	1590	0.36	Ondas de la Libertad, Libertad
211)	OT6	1595	0.3	R. Quero, Quero
212)	FM2	1600	0.3	R. Consular, Quevedo: 11.30-15.00, 18.00-22.00, 01.00-03.30

Shortwaves: Call: HC --. * = inactive, r = reported.

	Call	kHz	m	kW	Name and h. of tr.
213)	EH3	2430	123.5	0.2	R. El Progreso, Loja: 11.00-15.00, 17.00-20.00, 00.00-03.00
214)	JM1	3240	92.59	0.2	R. Turismo, Otavalo: 12.00-14.00, 17.00-19.00, 23.00-03.00
215)	RO7	3265	91.87	0.5	R. Orellana, El Puyo
199)	VN7	3290	91.19	1	La Voz del Napo, Tena
69)	JX6	3295	91.05	1.5	La Voz del Agoyan Baños: 10.00-03.30
13)	HA2	3308r	90.70	1.5	Ondas Quevedañas, Quevedo: 23.00-03.00
216)	RP7	3315	90.50	2	R. Pastaza, El Puyo
13)	HA2	3320	90.34	1.5	Ondas Quevedañas, Quevedo: 23.00-03.00
207)	VA4	3340	89.92	10	La Estación de la Alegria, Esmeraldas: 11.00-05.00
217)	IE1	3350	89.55	0.5	R. Cotacachi
36)	RE1	3375	88.89	1.5	R. Nac. Espejo, Sto. Domingo Cds: 23.00-03.00
218)	DY4	3378	88.81	0.25	R. Iris, Esmeraldas: 11.00-05.00
72)	OT1	3390	88.50	2	R. Zaracay, Sto. Domingo Cds: 10.00-03.00
84)	SK7	3395	88.37	5	R. Federación Sucúa, Sucúa: 11.00-13.00, 17.00-18.00, 21.00-23.00, 00.00-02.00
219)	YC4	3520	85.23	0.2	R. Escuelas Radiales, Lita: 11.00-04.00
220)		3400	88.24		R. Colosal, Ibarra
202)	RS4	3520	85.23		R. Sensación, Sto. Domingo Cds: 10.00-06.00
221)	OS4	3570r	84.03	0.5	La Voz del Rio Carrizal, Calceta: 11.00-04.00
52)	GS6	3615	86.00	0.4	R. Pillaro: 11.30-19.00, 21.00-03.30
221)	OS4	3630	82.64	0.5	R. La Voz del Rio Carrizal, Calceta: 11.00-04.00
222)	VH6	3755	79.90	0.4	R. Latacunga: 11.00-19.00, 22.00-04.00
153)	PZ1	*3815	78.64	0.3	R. Rumichacha, Tulcán
136)	WN1	3835	78.23	0.35	La Voz del Triunfo, St. Domingo Cds: 23.00-03.00
128)	SN6	3975	75.47	0.6	R. Sira, Ambato: 11.00-23.30, 01.00-04.00
89)	ER5	3985	75.28	1	Escuelas Radiofónicas Populares, Riobamba: 16.30-03.00
141)	JA5	3995	75.19	0.36	La Voz del Rio Tarqui, Cuenca: 10.00-05.00
90)	AK2	4650	64.40	1	R. Dif. del Ecuador, Guayaquil: 10.45-05.00
32)	WE1	4680r	64.10	1	R. Nac. Espejo, Quito: 24 h
223)	AV3	4712r	63.48	0.25	R. Luz y Vida, Loja: 11.00-13.00, 16.30-05.00
102)	LA2	4720	63.49	0.2	R. América, Guayaquil
127)	BK2	4750	63.16	0.25	R. El Mundo, Guayaquil: 13.00-19.30, 21.45-04.05
224)	LJ6	4755	63.10	3.5	La Voz de Bolivar, Guaranda: 19.00-22.00, 23.00-04.00
90)	AJ2	4765	62.95	2	C.R.E., Guayaquil: 11.00-05.00
111)	MX4	4770	62.89	0.4	R. Cenit, Portoviejo: 11.00-13.00, 15.00-04.30
30)	JF2	4770	62.89	1	R. Guayaquil: 24 h
213)	EH3	4775	62.84	0.2	R. El Progreso, Loja
181)	MQ1	4780	62.76	1	R. Atahualpa, Quito: 10.45-04.35
223)	LV3	4785	62.70	2	R. Luz y Vida, Loja: 11.00-13.30, 16.30-05.00
23)	VP2	4790	62.63	1	R. Sistema Atalaya, Guayaquil: 10.00-13.30, 01.00-04.55
225)	AS4	4795	62.57	0.5	La Voz de los Caras, Bahia: 11.00-05.00
130)	MB5	4800	62.50	0.5	R. Popular Independiente, Cuenca: 11.00-20.00, 23.00-04.00
226)	LS3	4810	62.37	1	R. Coro Santa Cecilia, Loja
12)	RF4	4820	62.24	1	R. Canal Manabita, Portoviej
152)	RT6	4820	62.24	0.45	R. Paz y Bien, Ambato: 09.03-03.00
227)	JS1	4830	62.10	0.5	Ondas del Angel, El Angel
39)	AM4	4835	62.05	1	La Voz del Valle, Porotoviejo: 11.00-13.00, 16.00-04.00
228)	RM3	4845	61.92	0.38	R. Cultural, Machala: 11.00-19.00, 00.00-05.00
229)	CV3	4850	61.86	0.2	Ondas del Zamora, Loja: 11.00-03.00
10)	MA1	4855	61.79	0.35	R. Marañon, Quito: 12.00-03.00
46)	CE1	4865	61.66	1	R. Punto 63, Quito
230)	XX4	4865	61.66	1	R. Dif. Cenit, Bahia de Caraquez: 11.00-03.35
104)	GM7	4870	61.60	5	R. Rio Amazonas, Macuma: 11.00-13.00, 23.00-01.00
231)	HW2	4875	61.54	0.45	R. Rey, Quevedo: 14.00-19.00, 21.00-04.00
160)	HE4	4875	61.54	5	La Voz de Esmeraldas: 10.00-14.00, 17.00-19.00, 22.00-05.00
32)	WE1	4880	61.48	10	R. Nac. Espejo, Quito: 24 h
61)	RU3	4895	61.29	0.25	Ondas Orenses, Machala: 13.00-03.30
7)	VS6	4900	61.22	1	La Voz de Sasquisili: 10.00-18.00, 20.00-03.00
232)	VZ7	4905	61.16	3	La Voz del Zamora, Zamora
233)	MJ1	4910	61.10	5	Emis. Gran Colombia, Quito: 11.00-06.00
234)	AH3	4916	61.03	3	R. El Trebol, Zaruma: 23.00-03.00
234a)		4920	60.98	1	La Voz de la Peninsula, Guayaquil
235)	RQ1	4923	60.94	5	R. Quito: 10.45-15.00, 17.00-18.00, 23.00-04.30
167)	CR1	4930	60.85	10	R. Casa de la Cultura, Quito: 11.00-15.10, 17.00-19.45, 23.00-04.00

Ecuador

	Call	kHz	m	kW	name and h. of tx.
15)	XZ1	4940	60.73	10	R. Nacional del Ecuador: Quito: 11.00-05.00
125)	CU1	4950	60.60	0.25	R. América, Quito: 11.00-05.00
47)	EM4	4955	60.54	1	R. Costa Azul, Portoviejo: 11.00-05.00
170)	PH5	4960	60.48	0.2	La Voz del Chofer, Riobamba: 12.00-04.00
78)	GH1	4970	60.35	3	R. Tarqui, Quito: 10.45-04.00
137)	JC5	4980	60.24	5	Ondas Azuayas, Cuenca: 11.30-11.30-05.00
84)	FS7	4985	60.18	1	R. Federación Sucúa, Sucúa: 11.00-13.00, 17.00-18.00, 21.00-23.00, 00.00-02.00
22)	SJ1	4990	60.12	1	R. Xavier, Quito: 11.00-15.00, 16.45-17.30, 22.00-03.00
89)	ER5	5015	59.82	1	Esc. Radiofónicas Populares, Riobamba: 16.30-03.00
58)	OB5	5025	59.70	3	R.Splendit,Cuenca:11.30-04.00
186)	VC3	5035	59.58	0.75	R. Centinela del Sur, Loja: 12.00-14.00, 17.00-03.00
32)	GB1	5040	59.52	1	R. Reloj, Quito: 11.00-06.00
51)	JP1	5050	59.41	5	R. Jesus del Gran Poder, Quito: 11.00-14.00, 22.30-03.00
54)	RP1	5055	59.35	0.5	R. Católica, Quito: 10.35-15.00, 17.00-18.00, 22.00-03.00
236)	CP7	5060	59.29	0.25	La Voz del Cenepa, Zamora
186)	VC3	5120r	58.59	0.75	R. Centinela del Sur, Loja
192)	RO5	5250	57.14	2	Ondas Cañaris, Azogues: 10.00-14.00, 23.00-04.00
169)	DF1	5900	50.84	0.6	La Voz del Norte, Ibarra: 11.30-04.00
237)	TR1	*5955	50.39	0.75	R. Equinoccial, Ibarra
60)	RS6	5960	50.34	5	R. Surcos, Guaranda
27)	JB	5960	50.34	100	La Voz de los Andes, Quito
238)	GE5	5965	50.29	1	R. Mundial, Riobamba: 12.00-15.00, 17.00-19.30, 23.00-04.00
62)	CM1	5970	50.25	1	R. Colón, Quito
25)	FA4	5990	50.08	0.5	La Voz de Manabi, Portoviejo: 11.00-05.00
136)	WN1	5995	50.04	1	La Voz del Triunfo, Sto. Domingo Cds: 23.00-03.00
19)	FZ1	6000	50.00	0.25	R. Voz y Visión, Quito
184)	EB4	*6015	49.88	0.5	R. Manta, Manta
239)	NK3	6035	49.71	0.5	R. Cariamanga: 11.00-15.00, 17.00-19.00, 23.00-04.00
27)	JB	6050	49.59	30	La Voz de los Andes, Quito
139)	AC1	6060	49.50	0.25	La Voz de la Democracia, Quito: 11.30-04.30
123)	IW5	6070	49.42	0.5	R. El Mercurio, Cuenca: 11.00-05.00
27)	JB	6070	49.42		La Voz del los Andes, Quito
40)	DG2	6080	49.34	10	R. Bolivar, Guayaquil: 12.00-05.00
101)	EG1	6085	49.30	1	R. Exitos, Quito: 11.00-05.00
143)	UM6	6090	49.26	0.5	R. 11 de Noviembre, Latacunga: 12.00-04.00
240)	SP4	6100	49.18	1	La Voz del Volante, Portoviejo: 11.00-05.00
27)	JB	6110	49.10	50	La Voz de los Andes, Quito
27)	JB	6130	48.94	50	La Voz de los Andes, Quito
108)	FB2	*6130	48.94	0.15	R. Condor, Guayaquil
16)	DE4	6140	48.86	5	R. Visión de Manta, Manta
132)	AF1	6150	48.78	1	R. Metropolitana, Quito: 09.00-16.00, 22.00-24.00
83)	LV1	6150	48.78	0.6	R. El Sol, Quito: 11.00-05.00
162)	BS4	6155	48.74	0.3	R.Tropical,Manta:10.30-04.00
9)	JJ2	6165	48.66	0.5	R. Punto Verde, Quevedo
241)	PJ2	6170	48.62	0.25	R. Fluminense, Catarama: 23.00-03.00
150)	MC7	6180	48.54	1	La Voz de los Aucas, F. Orellana
242)	EH6	6195	48.43	1.5	R. Cosmopolita, Ambato: 12.00-03.30
51)	JP1	9580	31.32	5	R. , Jesus del Gran Poder, Quito: 12.00-14.00, 17.00-03.00

27) JB — La Voz de los Andes, Quito:

kHz	m	kW	kHz	m	kW
9585	31.30	100	11920	25.17	100
9605	31.23	100	15110	19.85	100
9650	31.09	100	15115	19.85	100
9655	31.07	100	15195	19.74	100
9680	30.99	100	15255	19.66	100
9710	30.90	100	15300	19.61	100
9745	30.78	100	15325	19.58	100
11735	25.56	100	15415	19.46	100
11755	25.52	100	17780	16.87	100
11765	25.50	100	17880	16.78	100
11780	25.47	100	17890	16.77	100
11795	25.43	100	21460	13.98	100
11915	25.18	100			

Abbreviations: (Provincias): Azu = Azuay; Bol = Bolivar; Cañ = Cañar; Car = Carchi; Chi = Chimborazo; Cot = Cotopaxi; Deo = De El Oro; Esm = Esmeraldas; Gua = Guayas; Imb = Imbaburo; Loj = Loja; Dlr = De los Rios; Man = Manabi; Dms = Morono Santiago; Nap = Napo; Paz = Paztasa; Pic = Pichinga; Tun = Tungurahua; Zam = Zamora.

Addresses & other information:
St's: 5), 8), 17), 21), 44), 59), 82), 98), 166), 179), 187), 196) located in **Guayaquil**, Gua. Other information not available. St's: 66), 87), 112), 155), 190), 197), located in **Quito**, Pic. Other information not available.
1) Apt. 4144, Guayaquil, Gua. Te: 26102. L.P: Dir. Gen: J. Ferauda. A. Dir: R. Guerreno. V. Dir: Tec: J. Magen. V. by letter. Rec. acc. Rp.
2) Apt. 2832, Quito, Pic. Te: 231660.
3) Chimborazo 3407, Guayaquil, Gua. Te: 343327.
4) Cas. A57, Quito, Pic.
6) Flores 846, Quito, Pic.
7) Carrera Barreno 7, Sasquisili, Cot. Te: 35. L.P: Dir. Gen: A. Corrales. Dir: A. Mena. H. Dir. Tec: F. Simón. V. by letter. Rec. acc.
9) Quevedo, Dlr. L.P: Dir: J. C. Jalón F.
10) Venezuela 872, Quito, Pic. L.P: Dir: L. E. Laso.
11) Cas. 23, Zaruma, Deo. Te: 67.
12) Cas. 69, Portoviejo, Man. Te: 748. L.P: Dir: R. Fernández C. V. by letter.
13) 7 de Octubre 640, Quevedo, Dlr. Te: 330. L.P: Dir. Gen: H. Alvarado P. Dir: D. Espinal de Alvarado. Dir. Tec: G. Bonilla y F. Simons. V. by QSL-card.
15) Apt. 1316, Quito, Pic. Te: 216998. L.P: Dir. Gen: P. J. Velasco. Dir. Tec: F. Mejia C. D.Prgr: N: 14.30, 20.30, 04.30. FM: 99MHz. V. by letter. Rec. acc.
16) Cas. 4817, Manta, Man. Te: 2471. L.P: Dir: F. Davalos.
19) Quito, Pic. FM: 106.1MHz 1 kW.
20) Ventanas, Dlr. L.P: Dir: E. Briones R.
22) Apt. 194, Quito, Pic. Te: 211899. L.P: Dir: R. P. A. Molina, Marin.
23) Juan Montalvo 520. Milagro, Gua. L.P: Dir: E. Martinez C. FM: 95MHz. D.Prgr: N: Every h on the h. V. by letter.
25) Sucre 39, Portoviejo, Man. L.P: Dir: C. Chávez C.
26) Via Daule, Guayquil, Gua.

27) LA VOZ DE LOZ ANDES (HCJB)

Addr; Casilla 691, Quito. **Cable**: Vozandes (USA Office): Voice of the Andes, Box 691, Miami, Florida 33054). **L.P**: Pres: Dr. Abe Van Der Puy. Dir. of Broadc: Thomas Ed. Steele. Radio Production Coordinatior: Robert Beukema. Spanish Div. Dir: Enrique Romero. English Div. Dir: Robert Wollenweber. Engineering Dir: Robert Moore. Frequency Mgr: Samuel Rowley.
HOME SCE. in Spanish: 11.00-12.30 in 428, 49, 31, 25, 19 m.b; 12.30-01.45 m 428, 49, 31, 25 m.b; 01.45-04.00 m 428, 49 m.b; 09.00-11.00 in 25 m.b.
N: 11.20, 12.30, 13.30, 14.30 (W), 15.30 (W), 16.30 (W), 17.30 (W), 17.50 (Sun), 19.30 (W), 20.30 (W), 21.06, 21.30 (W), 23.30 (W), 23.45 (Sun), 01.30, 02.30, 03.55.

INTERNATIONAL SERVICE
I = Europe; II = Australia/New Zealand, So. Pacific; III = Japan; IV = South America; V = North America; VI = Caribbean/Jamaica; VII = Brazil; VIII = South East Asia IX = Mediterranean; X = Siberia.

	Area	m.b. (Beams)
Dutch		
06.00-06.30	I	31, 25(38°)
21.00-21.30	I	25, 19(38°)
English		
05.00-07.00	VI/V	19(345°)
05.00-08.30	VI/V	25(345°)
07.00-10.00	II	19(220°)
07.00-11.00	II	31, 25(220°)
07.00-08.30	I	31(38°)
07.00-10.00	I	49(38°)
12.45-15.00a	V/VI	19, 16, 13(345°)
18.45-20.00	I	25, 19, 16(38°)
22.00-01.30	I/VIII	25(38°)
23.30-24.00	V/VI	19, 16(345°)
01.45-05.00	V/VI	31, 25(345°)
French		
10.00-10.30	VI	49(32°)
18.30-18.45	I	19, 16(38°)
German		
06.00-06.30	I	49(32°), 31(38°)
10.30-11.00	IV	31, 19(140°)
20.00-20.30	I	25, 19(38°)
23.00-23.30	IV	19, 16(140°)
00.30-01.00	IV/V	19(140°), 16(345°)
03.00-03.30	V	31, 25(345°)
Greek		
05.30-06.00	I	31, 25(38°)

Japanese	Area	m.b.(Beams)
11.30-12.30	III	31, 25(345°)
22.00-22.30	IV	19, 16(140°)
Portuguese		
00.00-00.30	IV	19, 16(140°)
01.00-01.30	IV	19, 16(140°)
10.00-10.30	IV	31, 19(140°)
Quechua		
10.30-11.00	IV	428(nd), 49(180°)
16.30-17.00 (Sat)	IV/V	428(nd), 49(180°), 31(165°/345°), 25(140°)
18.00-18.30 (Sun)	IV/V	31(165°/345°), 25(140°)
Rumanian		
04.00-04.30	I	49(45°), 31, 25(38°)
05.00-05.15	I	31(38°)
Russian		
03.30-04.00	I	31, 25(38°)
04.30-05.30	I	49(32°), 31, 25(38°)
08.30-09.00	X	31, 25(345°)
11.00-11.30	II/X	31(345°), 25(228°)
16.00-17.00 (Sun)	IV	19, 16(140°)
22.30-23.00	IV	19, 16(140°)
02.30-03.00	V	31, 25(345°)
Scandinavian		
05.30-06.00	I	49(32°), 31(38°)
18.00-18.30	I	19, 16(38°)
20.30-21.00	I	25, 19(38°)
Spanish		
06.30-07.00	I	49(32°), 31, 25(38°)
09.00-10.00	IV	31(140°)
09.00-11.00	IV	25(140°)
11.00-12.30	IV/V	19(345°)
11.00-02.30	IV/V	31(165°/345°), 25(140°)
11.00-04.00	IV/V	428(nd), 49(180°)
20.00-22.00	V	16/345°)
21.30-21.45	I	25, 19(38°)
01.30-05.00	V	19(340°)

N. in English: 05.30a, 14.00a, 22.30a, 23.30a, 02.00b. (a = Wed-Sun; b = Tues-Sun.)

DX-Party Line: English: 02.30 (Tues), 19.30 (Tues), 09.30 Wed). **German:** Sat 06.00, 20.00. **Swedish:** Fri 05.30, 20.30 — **Mailbag:** (English): "Box 691": Mon 09.45, 13.30; Wed 18.45; Sun 01.15, 04.45. "Musical Mailbag": Thurs 02.30, 09.30, Tues 05.00. "Caribbean Call": 10.30, 23.30 — **Call of the Andes:** Wed-Sun 03.00, 07.00, 14.30, 19.00 — **HCJB News, Music & Variety** (1 h): Wed-Sun 05.00, 22.00 — **Music in the Night:** Wed-Sat 02.00.

ANN: E: "From latitude zero this is R. Station HCJB, the Voice of the Andes, your address on the international radio dial for inspirational listening. HCJB services its international audience with transmissions on six meter bands in fifteen languages. The time at the tone will be ... Eastern Standard Time, the same as ... Greenwich Mean Time. A Program follows in ...".

V: Listener reports are requested and appreciated; these are studied by our engineers. Complete reception reports are acknowledged with current QSL cards, in other by letter. International program schedules as well as individual language schedules are sent free upon request. Correspondence may be addressed to either: HCJB, Opa Locka Post Office Box 691, Miami Florida 33054 or HCJB, Casilla 691, Quito, Ecuador.

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28) Cas. 89, Portoviejo, Man. **Te:** 969. **L.P:** Dir: G. M. Bonilla B.
29) Garcia Moreno y Espejo, Quito, Pic.
30) Cas. 5169, Guayaquil, Gua. **L.P:** Dir: J. D. Feraud A. Dir. Tec: E. Espinoza. **FM:** 90.1MHz 0.25kW.
31) Atahualpa 222, Chone, Man. **L.P:** Dir. Gen: M. Espinel A.
32) Cas. 352, Quito, Pic. **Te:** 21366. **L.P:** Dir. Gen: F. Beltran P. Dir. Tec: G. Brborich I. **FM:** 101.3MHz 0.5kW. V. by QSL-card. Rec. acc.
33) 1 de Mayo 104, Guayaquil, Gua.
35) Boyaca y 9 de Octubre, Guayaquil, Gua. **Te:** 523830.
36) Plaza Central, Sto. Domingo de los Colorados, Pic. **L.P:** Dir: G. Brborich. **D.Prgr:** N: 12.30. V. by letter.
37) Av. Colón 313, Manta, Man. **Te:** 442. **L.P:** Dir: R. E. Garcia R.
38) Cas. 2938, Quito, Pic. **Te:** 211666. **L.P:** Mgr: A. Arcentales R.
39) Cas. 33, Portoviejo, Man. **Te:** 595. **L.P:** Dir: M. Barcia B.
40) Cas. 3672 y 5555, Guayaquil, Gua. **Te:** 5-12340. **L.P:** Dir: G. Gorelik.
41) Cas. 57A, Quito, Pic.
46) Cas. 2587, Quito, Pic. **L.P:** Dir: C. Estrella V.
47) Pedro Gual, Portoviejo, Man. **L.P:** Dir: S. E. Morlás A.
48) Edif. Cronica, Ambato, Tun.
49) J. Pio Montufar 1007, Guayaquil, Gua. **Te:** 513485. **L.P:** Dir. Gen: A. Jarrin P. Dir. Tec: J. Magen. **FM:** 99.9 MHz. V. by letter. Rec. acc. Rp.
51) Convento de S. Francisco, Quito, Pic. **L.P:** Dir: F. Fernandez.
52) Ca. Bolivar, Pillaro, Tun. **L.P:** Dir: G. Salazar.
53) Cas. 5662, Guayaquil, Gua.
54) Ca. Imbabura 1149, Quito, Pic. **Te:** 210208. **L.P:** Dir: Dr. M. A. Rojas. Dir. Tec: L. Calderon.
55) Larrea 20-19 Riobamba, Chi. **Te:** 2237. **L.P:** Dir: L. A. Tasambay.
56) Cas. 3325, Guayaquil, Gua. **Te:** 13448. **L.P:** Dir: A. Murillo M. **FM:** 96.1 MHz.
57) Venezuela 712, Quito, Pic.
58) J. Ordoñex y Galo de la Peñas, Cuenca, Azu. **L.P:** Dir: R. Valencia Z.
60) Cas. 15, Palacio Espiscopal, Guaranda, Bol. **Te:** 430. **L.P:** Dir. Gen: C. Rada.
61) Ca. Sucre, Machala, Deo. **Te:** 467. **L.P:** Dir: R. B. Ulloa L.
62) Apt. 2912, Quito, Pic. **Te:** 236-271. **L.P:** Dir. Gen: M. Correa A. Mgr: J. Aguilar V. Dir. Tec: F. Simon. V. by letter.
63) 6 de Marzo y V. M. Rendon, Guayaquil, Gua. **Te:** 510632. **FM:** 98.3 MHz.
64) Palacio Municipal, Ibarra, Imb.
65) Caserio Majipamba, Colta, Chi: 11.00-24.00.
67) Rumichacha y Culicuchima, Guayaquil, Gua.
68) Convento Parroquial, Atuntaqui, Imb. **L.P:** Dir: T. Baquerizo.
69) Convento de Padres Dominicos, Banos, Tun. **Te:** 51. **L.P:** Dir. Gen: L. Tipan Rojas. Dir. Tec: E. Ruiz. V. by letter. Rec. acc.
70) Cas. 9, Babahoya, Dlr.
71) Barahona 438, Quito, Pic. **Te:** 213096. **L.P:** N. P. Castro.
72) Edif. Hualpa Alvarez, Sto. Domingos de los Colorados, Pic. **L.P:** Dir: H. Velastegui.
73) Oviedo 543, Ibarra, Imb.
74) Apt. 63, Cuenca, Azu.
75) Cas. 11-66, Guayaquil, Gua. **Te:** 5-12495. **L.P:** Dir. Gen: A. Wilmot M. Mgr: D. Huerta C. V. by QSL-card. Rec. acc.
76) Cas. 20, Riobamba, Chi. **Te:** 2376.
77) Cas. 49-21, Cuenca, Azu. **Te:** 35-52.
78) Cas. 2558, Quito, Pic. **Te:** 211540. **L.P:** Dir: G. Herdoiza L. V. by letter.
79) Cas. 1009, Guayaquil, Gua.
80) Cas. 198, Cuenca, Azu. **Te:** 2425.
81) Pedro Solano 701, Manta, Man. **Te:** 874.
83) Guayaquil y Bolivar, Edif. Rojas, Quito, Pic. **L.P:** Dir: L. Moreno C.
84) Misión Salesina, Sucúa, Dms. **L.P:** Dir: P. J. Shutka L. Dir. Tec: M. Krobina L. **D. Prgr. N:** 12.30, 17.30, 01.30. V. by letter. Rec. acc.
85) Ayacucho 4, Riobamba, Chi.
86) Cas. 6292, Guayaquil, Gua. **Te:** 510472. **L.P:** Mgr: P. P. Gomez S.
88) Garcia Moreno 534, Machachi, Pic. **Te:** 10224. **L.P:** Mgr: S. B. Cueva S. Dir. Tec: H. A. Cueva Y. V. by letter.
89) Apt. 4755, Riobamba, Chi. **Te:** 2625. **L.P:** Dir. Gen: R. Veloz. Dir. Tec: W. Luna. Dir. Prgr: D. Pazmiño G. **D. Prgr:** N: 17.00, 22.00. V. by letter. Rec. acc.
90) Apt. 4144, Guayaquil, Gua. **Cable:** CRE. **L.P:** Dir. Gen: R. Guerrero V. Dir. Tec: J. Magen. **D. Prgr:** N: Every h on the h. **FM:** 91.5 MHz. V. by letter.
91) Plaza Principal, Sasquisili, Cot.
92) Salvador 209, Quito, Pic.
93) Bolivar 1527, Ambato, Tun. **Te:** 3155. **L.P:** Dir: R. J. Salazar.
94) Cas. 5041, Guayaquil, Gua. **Te:** 16618. **L.P:** Dir: L. Rigai R. **FM:** 89.5 MHz.
95) Colón y Eloy Alfaro 303, Manta, Man. **Te:** 2419. **L.P:** Dir. Gen: J. Sanchez R. Dir. Tec: J. Giler. **D. Prgr:** N: 11.30, 17.00, 23.30, 03.30. V. by letter. Rec. acc.
96) Venezuela 541, Quito, Pic.
97) Quito 20161, Latacunga, Cot.
99) Lamar 718, Cuenca, Azu.
101) Cas. 3409, Quito, Pic. **Te:** 216723. **L.P:** Dir: J. M. Rodriguez. **D. Prgr:** N: 11.00, 18.30, 01.00. V. by letter. Rec. acc.
102) Luque 910, Guayaquil, Gua. **Te:** 515720. **L.P:** Dir. Gen: L. Alban B. Dir: A. Alban A. **FM:** 91 MHz.
103) Bolivar 116, San Gabriel, Car. **Te:** 116. **L.P:** Dir: F. Poso G.
104) Macuma, Dms. **L.P:** Dir: G. Molina.
105) Cas. 269, Cuenca, Azu.

106) Cas. 2384, Quito, Pic. Te: 530-516. L.P: Dir. Gen: L. E. Granizo V. Dir. Tec: E. Espinoza. V. by letter. Rec. acc.
107) Cas. 242, Ambato, Tun. Te: 2173.
108) F. García Aviles 613, Guayaquil, Gua. L.P: Dir. Gen: C. Ardito M.
109) Venezuela 1070 y Olmedo, Quito, Pic.
110) Cas. 4747, Riobamba, Chi. Te: 2449.
111) Apt. 4065, Sucre, Portoviejo, Man. Te: 780. L.P: Dir: W. Delgado. V. by letter.
113) Cas. 695, Machala, Deo. Te: 838.
114) Cas. 5, Quito, Pic. Te: 240-450. L.P: Dir. Gen: C. McMindes. Dir. Tec: S. Houghton S.
115) Roma 26 y Olmedo, Riobamba, Chi. Te: 2831. L.P: Dir: J. León V.
116) Cas. 1598, Cuenca, Azu. Te: 38-65.
117) Cas. 1207, Quito, Pic.
118) González Suárez s/n, Mira, Car. L.P: Dir: J. O. Caicedo C.
119) Tena, Nap. L.P: Dir: A. Cabri.
120) P. Mancayo 934 y Vélez, Guayaquil, Gua.
121) Parque Central Juan de Salinas, Sangolquí, Pic. Te: 313064. L.P: Dir: A. Calderon G.
123) Padre Aguirre 757, Cuenca, Azu. L.P: Dir: M. Merchan.
124) Av. Progreso y Desima, Quevedo, Dlr. Te: 389. L.P: Dir: J. Pazos S.
125) Cas. 1020, Quito, Pic. L.P: Dir: G. Hernandez.
126) Colegio S. Felipe, Riobamba, Chi.
127) Cas. 3311, Guayaquil, Gua. L.P: D. Vergera J.
128) Cas. 354, Ambato, Tun. Te: 2235.
129) Cas. 181, Ibarra, Imb. Te: 411. L.P: Dir: A. Moran.
130) Av. Loja 963, Cuenca, Azu, Te: 3691. L.P: Dir. Gen: M. S. Villavicencio.
131) Cas. 4747, Riobamba, Imb. Te: 2455.
132) Manabi 556 y Vargas, Quito, Pic. Te: 219599. L.P: Dir. Gen: A. Loza C. Dir. Tec: V. Ordóñez. D. Prgr: N: 04.00, 12.00. V. by letter. Rec. acc.
133) Junin 206, Guayaquil, Gua.
134) Cas. 30, Tulcán, Car. Te: 450. L.P: Dir. Gen: F. Almeida C. Dir. Tec: H. Beserra O. V. by letter. Rec. acc. Rp.
136) Cas. 43, Sto. Domingo de los Colorados, Pic. L.P: Dir: M. M. Yanetz. V. by letter.
137) Cas. 4980, Cuenca, Azu. Te: 3911. L.P: Dir: A. Cardozo. Dir. Tec: O. Espinoza. D. Prgr: N: 12.20, 17.00, 01.30.
138) Cas. 5177, Guayaquil, Gua. Te: 342389. L.P: Dir: O. Arroba E.
139) Apt. 288, Quito, Pic. L.P: Dir: E. Cevallos.
140) Nonoa y Santisteban, Jipijapa, Man.
141) Lamar y Montalvo, Cuenca, Azu. Te: 31-98. L.P: Dir: M. Pulla C. Dir. Tec: L. Vasquez.
142) Parque 10 de Agosto s/n, San Isidro, Car. L.P: Dir: C. A. Calderon G.
143) Cas. 286, Latacunga, Cot. Te: 402. L.P: Dir. Gen: V H. Muñoz H.
144) Apt. 4065, Guayaquil, Gua.
145) Pasaje, Deo. L.P: C. Prado A.
146) Cas. 368, Ambato, Tun. 29-79.
147) Cas. 47, Babahoya, Dlr. Te: 6145. L.P: Dir: F. Ronquillo.
149) Juan Montalvo 834, Pasaje, Deo.
150) F. Orellana, Nap. L.P: Dir: N. Zubeldia.
152) Cas. 94, Ambato, Tun. Te: 2120. L.P: St. Mgr: M. Valerezo. Dir. Tec: A. Rivadeneira. D. Prgr: N: 11.30, 14.00, 17.00, 02.00. FM: 104.7 MHz. V. by letter. Rec. acc.
153) Cas. 42, Tulcán, Car. Te: 465. L.P: Dir: E. Cabezas. Dir. Tec: A. Guerron. D. Prgr: N: 12.30, 17.45, 23.30. V. by letter and QSL-card. Rec. acc.
154) El Barquito Puente 5 de Julio, Guayaquil, Gua.
156) 24 de Febrero, Quevedo, Dlr.
157) Cas. 91, Ambato, Tun. Te: 2820.
158) Cas. 8, El Milagro, Gua. Te: 77-4019. L.P: Dir. Gen: C. H. Vega. Mgr: L. Delgado. V. by letter. Rec. acc.
160) Cas. 108, Esmeraldas, Esm. Te: 1106. L.P: Dir. Gen: H. A. Endera E. Dir. Tec: Ing. Horvath. D. Prgr: N: 12.00, 17.00, 00.30, 03.00. V. by letter. Rec. acc.
161) Colón 2005, Guayaquil, Gua. Te: 360049.
162) 25 de Mayo, Manta, Man. L.P: Dir: O. Ruberty.
163) Guayaquil 1242, Quito, Pic.
164) El Carmen, Man. L.P: Dir: G. V. Lippke.
165) Cas. 294, Latacunga, Cot. Te: 550. L.P: Dir: W. M. Abril.
167) Apt. 67, Quito, Pic. L.P: Dir. Gen: L. Verdesoto S. Dir: J. M. Estrella P. D. Prgr: N: 11.15, 12.00, 12.30, 15.00, 18.00, 19.00, 0045, 02.45. F:M 103 MHz. V. by letter. Rec. acc.
168) Azuay 317, Azogues, Cañ.
169) Cas. 1244, Ibarra, Imb. Te: 21-01. L.P: Dir. Gen: G. Encalada R. Dir. Tec: C. Sánchez. D. Prgr: N: 12.00, 17.00, 23.30. V. by letter. Rec. acc.
170) Tarqui 58, Riobamba, Chi.
171) Esmeraldas 1912, Guayaquil, Gua.
172) Sucre y 9 de Octubre, Esmeraldas, Esm.
174) Ca. Sucre 34, Cayambe, Pic. L.P: Dir. Gen: J. M. Córdova S. Dir. Tec: A. Iturralde. V. by letter. Rp. Rec. acc.
176) Gonzalo Cordiva 548, Pto. Bolivar, Deo.
177) Jipijapa, Man. Te: 311. L.P: Dir: U. Delgado G.
178) Apt. 223, Ambato, Tun. Te: 2642. L.P: Dir. Gen: E. Castellanos J. Dir. Tec: J. Pinto.
181) Apt. 3213, Quito, Pic. Te: 1285. Cable: Rahualpa. L.P: Dir. Gen: G. Maldonado. Dir. Tec: L. Calderon. Dir. Foreign Rel: Miss L. Rivadeneira. D. Prgr: N: 11.00, 18.00, 19.00, 23.00, 01.00, 03.00 and every 30 mins from 11.00-04.30. V. by letter.
183) Cas. 140, Riobamba, Chi. Te: 2969. L.P: Dir: W. Aldaz N.
184) Apt. 4869, Manta, Man. L.P: Dir: E. Bowen. V. by QSL-card or letter.
185) Modesto Jarmillo y Salinas, Otavalo, Imb. Te: 301. L.P: Dir: G. Rosero.
186) Cas. 196, Loja, Loj. Te: 211. L.P: St. Mgr: M. V. de Coronel. Dir. Tec: F. E. Coronel. D. Prgr: N: 12.00, 18.00. V. by letter or QSL-card. Rec. acc.
188) Apt. 1003, Quito, Pic.
192) Cas. 731, Azogues, Cañ. Te: 40335. L.P: Dir. Gen: H. Vicuña N. Mgr: M. Vicuña D. Dir. Tec: L. Vasquez. D. Prgr: N: 12.00, 02.00.
193) Edif. Ramos, Latacunga, Cot.
194) Sucre 839, Machala, Deo. L.P: Dir. Gen: S. B. Pinos G. V. by letter. Rp. Rec. acc.
201) Daule, Gua. L.P: Dir: F. Davila R.
202) Av. Tres de Julio, Sto. Domingo Cds, Pic. Te: 331290. L.P: Dir. Gen: H. V. Lippke. Dir. Tec: L. Vasquez. V. by letter.
206) Barrio el Censo, Pillaro, Tun.
207) Ca. Bolivar 831, Esmeraldas, Esm. Te: 1209. L.P: Dir. Gen: J. C. Plaza. Dir. Tec: L. Rivera Z. D. Prgr: N: 23.30, 05.15. FM: 95.9 MHz 0.1 kW. V. by QSL- card. Rec. acc.
213) Av. Gran Colombia 98-100, Loja, Loj. L.P: Dir: E. Herrera G. Te: 637.
214) 31 de Octubre s/n, Otavalo, Imb. L.P: J. A. Viver.
215) El Puyo, Paz. L.P: Dir: H. Velastegui.
217) 10 de Agosto s/n, Cotacachi, Imb. L.P: Dir: L. A. Paz.
218) Cas. 142, Esmeraldas, Esm. Te: 1109. L.P: Dir: D. Alvaraz T. V. by letter.
219) Campamento Lita, Esm.
220) Cas. 117, Ibarra, Imb. Te: 645. L.P: Dir: C. Salazar G.
221) Ca. 10 de Agosto 308, Calceta, Man. L.P: Dir. Gen: P. Navarrete V. V. by letter. Rp.
222) Terminal de la Ca. Hnas. Pasmino, Latacunga, Cot. L.P: Dir: B. Muñoz.
223) Apt. 222, Loja, Loj. Te: 426. L.P: Dir: E. J. Ludeña. Dir. Tec: E. B. Ruiz. D. Prgr: N: 12.00, 17.00, 01.00. V. by letter.
224) Garcia Moreno 28, Guaranda, Bol. Te: 470. L.P: Dir: J. Alarcon.
225) Apt. 608, Bahia de Caraquez, Man. Te: 370. Cable: Voz Caras. L.P: Dir: A. E. Nevares. V. by letter.
227) Apt. 16, El Angel, Car. L.P: Dir: J. Salazar.
228) 9 de Mayo, Machala, Deo.
229) Cas. 174, Loja, Loj. Te: 700. L,P: Dir: L. Laso.
230) Bolivar 902, Bahia de Caraquez, Man. Te: 430. L.P: Dir: C. Hurtido Polit. V. by letter.
231) Ca. 4. No. 223, Quevedo, Dlr. L.P: Dir: E. Muñoz H.
232) Zamora, Zam. L.P: Dir: J. Mosquera.
233) Cas. 2246, Quito, Pic. Te: 211670. Cable: Emigrancolombia. L.P: Dir. Gen: E. Cevallos. Dir. Tec: F. Simon. D. Prgr: N: Every h on the h. V. by letter. Rec. acc.
234) Club Deportivo Trebol, 26 de Noviembre, Zaruma, Deo. Te: 65. V. by letter.
235) Apt. 57, Quito, Pic. Te: 210151. L.P: St. Mgr: L. Ponce M. Dir. Tec: A. Horvath. D. Prgr: N: 11.00, 12.30, and every h 16.00-03.00, 03.30. FM: 93.5 MHz. V. by QSL-card. Rec. acc.
236) Zamora, Zam. L.P: Dir: E. Herrera.
237) Velasco 333, Ibarra, Imb. L.P: Dir: D. de Teran.
238) Apt. 1244, Riobamba, Chi. Te: 2101. L.P: Dir. Gen: G. Encalada R. V. by QSL-card. Rec. acc.
239) Cariamanga, Loj. L.P: Dir: L. Cabezas F.
240) Morales 543 y Colón, Portoviejo, Man.
241) Catarama, Dlr. V. by letter. Re. only in Sp.
242) Cas. 140, Ambato, Tun. Te: 2007. V. by letter.

FALKLAND ISLANDS

L.T: GMT — 4 h (April-Sept: GMT — 3 h) — **Pr.L:** English.

FALKLAND ISLAND BROADCASTING SERVICE (Gov.)
ADDR: Broadcasting Studios, Stanley. **Cable:** Broadcasts. **Te:** 90 — **L.P:** Dir. Gen. Ch. Reeve. Dir. Tec: E. Fuhlendorff.
STATIONS: 536kHz 559.7m 5kW — 3958kHz 75.79m 0.5kW.

HOME SCE: October-March: W 13.00-15.00, 22.30 (Sat 21.30)-01.30; Sun 21.45-00.30 — April-September: W 14.00-16.00, 22.30 (Sat 20.30)-02.00; Sun 22.00-01.00. N: 22.45 (BBC); Relay BBC-WS: Sun 22.15. Local N & shipping N: Fri 23.25. ANN: "This is the Falkland Islands Broadc. Station" — V. by letter. Re. to Secr. N. Cambell. Rp.

GUIANA

L.T: GMT — 3¾ h — Pr.L: English.

GUYANA BROADCASTING CO. LTD. (Comm.)
ADDR: P.O. Box 561, Georgetown. Te: 2691. Cable: Broadcast. L.P: Gen. Mgr. & Sales Mgr: U. A. Gouveia. Dir. Prgr: R. A. Khan. Secr: E. V. Harrison.
STATIONS: R. Demerara (G.C: 58.05W/06.49N).
760kHz 395m 10kW — 3265kHz 91.87m 2kW — 5980kHz 50.17m 2kW.
HOME SCE: On 760kHz: 09.10 (Sun 09.45)-02.45 (Sat 03.45); On 3265kHz: 09.10 (Sun 09.45)-10.30, 22.30-02.45 (Sat 03.45); On 5980kHz: 10.30-22.30.
N: W 09.48, 10.15, 11.15, 13.00*, 15.10, 16.00*, 20.00*, 20.10, 21.10, 22.00, 23.10, 00.45, 02.43; Sun 11.10, 16.00*, 16.10, 20.00*, 23.10, 00.45, 02.43 —*) = BBC.
ANN: "This is R. Demerara, Voice of Guyana" — V. by QSL-card. Recordings accepted — ALF: G$ 1.50.

GUIANA (French)

L.T: GMT — 3h — Pr.L: French — EC: a/c 50 (no).

OFFICE DE RADIODIF. TELEVISION FRANCAISE (ORTF)
ADDR: B.P. 336, Cayenne. Te: 355 — L.P: St. Mgr: G. Brody. Dir. Tec: C. Pierre.
STATIONS (G.C: 52.00W/05.00N): 4kW.
1070kHz 280.4m: see below.
3385kHz 88.63: 20.30-01.00 (Sat 02.00). Sat also 15.00-18.00
6170kHz 48.62m: 12.00-20.30 (Sun).
HOME SCE. in French: W 09.15-11.00, 15.00-17.30 (Sat 18.00), 20.30-01.00 (Sat 02.00): Sun 10.00-01.00.
N: 10.30, 16.30, 22.30.
ANN: "Ici Cayenne, Office de Radiodiffusion Télévision Française" — INT-SIG: Trumpet — V. by letter.
Recordings accepted — ALF: 30 Frcs.

PARAGUAY

L.T: GMT — 4 h — Pr.L: Spanish, Guarani.

ADMINISTRACION NACIONAL DE TELECOMUNICACIONES
ADDR: Administración General, Cas. Correo 84, Asunción. Cable: Antelco. Te: 4001. L.P: Dir. Gen: P. Pereira. Dir. of Technical Dept: Ing. J. C. Martinez R.
STATIONS: All st's comm, exc. R. Nacional.
Medium Waves: Call: ZP--. ° = Shortwave.

	Call	kHz	kW	Name and location, h. of tr.
1)	ZP15	560	0.25	La Voz de Amambay, Pedro Juan Caballero: 10.00-17.00, 18.00-02.00.
2)	ZP16	640	1	R. Ponte Strossner, Puerto Ponte Strossner.
3)	ZP12	700	10	R. Carlos Antonio Lopéz, Pilar: 09.00-02.00.
4)	ZP5	°760	25	R. Encarnación, Encarnación: 08.00-04.00.
5)	ZP7	°900	1.5	R. Guarani, Asunción.
6)	ZP1	°920	10	R. Nacional, Asunción.
7)	ZP9	970	5	R. Comuneros, Asunción: 24 h.
8)	ZP14	1020	5	R. Nanduti, Asunción: 08.30-02.00.
9)	ZP13	1060	1.5	R. Boquerón, Alberdi: 09.30-02.30.
10)	ZP11	°1200	1.5	R. Charitas, Asunción.
11)	ZP10	°1300	5	R. Paraguay, Asunción.
12)	ZP4	1330	1/5	R. Chaco Boreal, Boreal: 09.00-06.00.
13)	ZP6	°1360	5	R. Guaira, Villarica.
14)	ZP3	°1430	1	R. Teleco, Asunción.
15)	ZP8	1480	1	R. Concepción, 09.30-02.00.
16)	ZP20	1480	1	R. America, San Juan Bta de las Mnes: 10.30-00.30.
17)	ZP17	1570	1	R. Caaguazu, Coronel Oviedo: 10.00-01.00.

Short Waves: Call: ZP --.

	Call	kHz	m	kW	Name and h. of tr.
13)	A6	5975	50.21	3	R. Guaira, Villarrica: 12.00-18.00, 21.00-03.00.
11)	A10	6015	49.88	1	R. Paraguay, Asunción: 10.00-19.00, 20.00-02.00
6)	A1	6025	49.79	3	R. Nacional, Asunción: 12.00-18.00, 21.00-03.00
10)	A11	6110	49.10	1	R. Charitas, Asunción: 15.00-01.00
14)	A3	11850	25.32	3	R. Teleco, Asunción: 14.00-23.00
4)	A5	11945	25.12	3	R. Encarnación: 15.00-17.00, 20.00-02.00
5)	A7	15210	19.72	3	R. Guarani, Asunción: 12.00-16.00, 19.00-03.00

Addresses & other information:
1) Pedro Juan Cabellero.
2) Ponte Pte. Strossner.
3) Alberdi 200, Pilar. Te: 54. L.P: Dir. Gen: M. Angez R. Dir. Tec: M. Angez S. D.Prgr: N: every h. on the h. 09.00-23.00.
4) Artigas 335, Encarnación. Te: 110. L.P: Dir. Gen: A. Vera. Mgr: J. Gómez. Dir. Tec: R. Godefroid. V. by letter. Rec. acc.
5) José F. Bogardo y 7A, Asunción. Te: 20893. L.P: Dir. Tec: M. Saccarello. V. by letter.
6) Victor Haedo 563, Asunción. L.P: Dir. Gen: A. Cáceres Almada. Dir. Tec: P. Pereira. D.Prgr: N: 16.30, 22.30, 02.30. V. by letter. F.Pl: 3 x 100kW tr. under construction for 9735, 11915, 11940kHz.
7) Estados Unidos y Nanawa, Asunción.
8) Anteguera 654, Asunción.
10) L. A. de Herrera 364, Asunción.
11) Av. Dr. Caspar R. de Francia 343, Asunción. V. by QSL-card. Rp.
12) Cnel. Bogado 394, Boreal.
13) Elejo Garcia y Pte. Franco, Villarrica. Te: 85. V. by QSL-card or letter.
14) Gral. Artigas y Bañado, Asunción. V. by letter.
15) Oliva y Schreiber, Concepción. L.P: Dir: S. E. Dacak. V. by letter. Rec. acc.
16) San Juan Bta. de las Mnes.
17) Coronel Oviedo.

PERU

L.T: GMT — 5 h — Pr.L: Spanish — E.C: a/c 60 (yes).

JUNTA PERMANENTE DE TELECOMUNICACIONES
ADDR: Esq. Garzilazo de la Vega y 28 de Julio, Lima.

ASOCIATION NACIONAL DE RADIO EMISORAS DEL PERU — ADDR: Av. Tacna 543, Lima.

ORGANISMO REGIONAL BOLIVARIANO DE AIR (O.R.B.O.)
ADDR: Colmena 624, Lima. L.P: Pres: P. Tello Cadenas (Peru). Exec. Secr: R. Salmon (Bolivia). ORBO represents all Radio & TV st's in Bolivia, Ecuador, Panama, Peru & Venezuela.
Medium Waves: ° = shortwave.

	Call	kHz	kW	Name, location and h of tr.
1)	OAX3X	540	5	La Voz de la Costa, Chimbote
2)	OBZ4L	560	1	La Voz de la Oriente, Lima
3)	OAX3K	570	1	R. Progreso, Chimbote
4)	OBX5F	570	1	R. Constelación, Ica
5)	OCY4K	590	50	Lima
6)	OAX2M	620	9.4	R. Chepén, Chepén
7)	OAX7V	620	0.45	R. Garcilozo de la Vega, Cuzco
8)	OAX5T	°620	1	R. La Voz de Huamanga, Huamanga
9)	OBX7B	°640	1	R. Onda Azul, Puno: 10.45-04.15
10)	OAZ4X	°640	10	R. Del Pacifico, Lima
11)	OAX5R	650	1	R. Regionalista, Ica
12)	OAX2N	650	1	R. Ondas del Norte, Trujillo
13)	OBX4A	°670	1	R. Universal, Callao: 22.30-03.15
14)	OBX1S	680	5	La Voz de Tumbes, Tumbes
15)	OAX5E	680	1	R. Independencia, Ica
16)	OAZ4F	°690	0.4	R. La Oroya, La Oroya
17)	OAX3F	690	1	R. Chimbote, Chimbote
18)	OBZ4H	700	1	R. Progreso, San Miguel
19)	OBX1P	°710	10	R. San Juan, Piura
20)	OCY4M	720	5	La Voz de la Sierra, Huancayo
21)	OAX2J	730	1	R. Sumericana, Trujillo
22)	OBX4S	°730	1	R. Sudamericana, Lima
23)	OAX6C	°740	10	R. Continental, Arequipa: 11.00-06.00
24)	OAX1B	°750	0.25	R. Sudamericana, Piura: 12.00-05.00
25)	OAX3T	750	1	R. Mundo, Chimbote
26)	OBZ4X	°760	10	R. Los Andes, Lima
27)	OBX7N	770	0.4	R. Ilave, Juliaca
28)	OAX4X	°780	10	R. Victoria, Lima: 11.00-06.00
29)	OAX2I	790	5	C.R.U., Trujillo
30)	OAZ4U	800	0.5	R. San Juan, Huaral
31)	OBX5B	800	0.5	R. Sur Medio, Ica

Call	kHz	kW	Name and h. of tr.
32) OBZ4A	800	0.5	R. San Antonio, Cañete
33) OAX2V	800	1	R. OAX2V, Cajamarca
34) OAX3Y	800	1	R. La Selva, Tingo Maria: 11.00-05.00
35) OCY4T	800	1	R. Progreso, Huancayo
36) OBX6A	800	0.35	R. Porteña, Ilo
37) OBX1L	810	1	R. Start, Chiclayo
38) OAX8S	°810	5	R. San José, Iquitos: 11.00-02.00
39) OAX4O	820	1	R. Libertad, Lima
40) OAX3S	830	1	R. Casma, Casma
41) OAX5P	°830	1	R. Pisco, Pisco
42) OAX4H	°855	10	R. Nacional, Lima
43) OAZ4Y	870	0.25	R. La Montaña, Santipo
44) OBX1F	870	1	C.R.U, Chiclayo
45) OBZ4N	°880	50	R. Union, Lima
46) OAX1D	°890	1	R. Progreso, Piura: 11.00-06.00
47) OBX4X	°900	10	R. El Sol, Lima: 11.00-05.00
48) OBX1G	920	5	R. Heróica, Chiclayo
49) OBZ4J	920	1	R. Bologuesi, Huancayo
50) OAX4E	°930	50	R. Central, Lima: 12.00-06.00
51) OBX7L	940	0.5	R. Wilcamayo, Sicuano
52) OAX4D	°960	20	R. Panamericana, Lima: 12.00-16.00, 23.00-04.00
53) OAX2F	°980	0.4	R. La Hora, Trujillo: 12.00-06.00
54) OBX4J	°985	5	R. Expreso, Lima: 12.00-05.00
55) OBZ4R	°990	1	R. La Voz del Valle del Mantaro, Jauja
56) OAX4U	°1010	50	R. América, Lima: 13.00-05.05
57) OAX7N	°1030	0.25	La Voz del Altiplano, Puno: 11.00-05.00
58) OAX1S	1030	10	R. Dice Sesenta, Chiclayo
59) OAX8A	°1030	1	R. Nacional, Iquitos: 11.00-05.00
60) OBX4O	°1040	10	R. Onda Popular, Lima: 24 h
61) OAX3U	°1060	1	R. Horizonte, Huanuco
62) OBX5D	°1060	1	R. Andahuaylas, Andahuaylas: 11.30-14.00, 21.30-04.00
63) OCY4D	1060	1	R. Mil Sesenta, Lima: 12.00-06.00
64) OAX2B	°1070	5	R. Trujillo, Trujillo: 12.15-05.30
65) OAX5A	1070	1	R. Centinela, Nazca 11.00-05.00
66) OAX4F	°1080	10	R. Oficial del Congreso del Peru, Lima: 12.00-05.00
67) OBX1D	°1080	5	R. San Miguel, Piura
68) OAX7S	1080	1	R. Salcantay, Cuzco
69) OAX8N	°1080	1	R. Amazonas, Iquitos: 11.00-05.00
70) OAX9H	1080	1	R. Miranon, Chachapoyas
71) OAX3I	°1100	0.5	R. Tingo Maria, Tingo Maria 11.00-06.00
72) OAZ4K	1100	1	R. Musical Cra, Barranca
73) OCX4S	1100	0.15	R. Imperial, Cañete
74) OAX5Z	1100	1	R. Latinoamericana, Ica
75) OCY4G	1100	1	R. Sonorama, Huancayo: 11.00-05.00
76) OBX7Z	1100	1	R. Collao, Juliaca
42) OBX4A	°1120	20	R. Nacional, Lima
77) OAX6D	°1120	10	R. Nacional, Tacna: 12.00-05.00
78) OBX1I	1130	1	R. Nor Peru, Chepén
79) OAX4N	°1130	2.6	R. Selecta, Lima: 13.00-04.30
80) OAX7H	°1130	0.45	R. Puno, Puno: 01.00-04.00
81) OAZ4S	°1130	1	R. Chanchamayo, La Merced: 11.00-05.00
82) OCY4C	1140	1	R. Centro, Huancayo
83) OAX5W	1140	0.5	R. Chinchaysuyo, Chinca Alta
84) OAX8D	°1150	10	R. Loreto, Iquitos: 11.00-05.00
85) OAX4C	°1160	5	R. Once Sesenta, Lima: 12.00-05.00
86) OAX7D	°1160	10	R. Nacional, Puno
87) OAX1K	°1160	1	R. Nacional, Tumbes
88) OAX2C	°1160	0.3	R. Libertad, Trujillo: 12.00-05.00
89) OAX3B	°1160	0.5	R. Huaráz, Huaráz
90) OAX1E	°1190	10	R. Chiclayo, Chiclayo: 12.00-05.00
91) OAX7B	°1200	0.3	R. Tahuantisuyo, Cuzco
92) OAX4B	°1200	0.5	R. Lima, Lima: 12.00-06.00
93) OAX8M	1200	2.5	R. Mariana, Iquitos
94) OAX2Q	1210	1	R. Universo, Trujillo: 11.00-06.00
95) OAX5G	1220	1	R. San Pedro de Grocio Prado, Chincha
96) OAX2T	1230	1	R. Albujar, Guadalupe
97) OBZ4Y	1230	0.4	R. Selecciones, Tarma
98) OBX4L	°1230	1	R. Luz, Lima: 12.00-05.00
99) OBX7J	°1230	0.5	R. Madre de Dios, Puerto Maldonado: 15.15-07.30
100) OAX8P	°1250	1	R. Pucallpa, Pucallpa: 10.30-05.00
101) OAX4L	°1250	5	R. Miraflores, Miraflores
102) OAX1H	°1270	0.5	R. Grau, Piura
103) OAX5B	°1270	1	R. Ica, Ica
104) OBX7G	°1270	1	R. Ondas del Titacaca, Puno
105) OAX8T	°1270	1	R. Eco, Iquitos: 12.00-05.00
106) OAX9F	°1270	1	R. Nor Peruana, Chachapoyas: 12.00-06.00
107) OAZ4H	°1270	1	R. Huacho, Huacho:
108) OBZ4T	1270	0.5	R. La Merced, La Merced
109) OBZ4K	1280	10	R. Noticias, Lima
110) OBX5G	1300	1	La Voz de Lucanas, Piquio
111) OAX1I	°1300	1	R. Lambayeque, Chiclayo: 11.15-05.00
112) OAX3O	1300	1/2	R. Huascaran, Huaráz
113) OAZ4B	°1300	1	R. Andina, Huancayo
114) OAX7P	°1300	0.35	R. Onda Imperial, Cuzco: 16.00-07.00
115) OAX4M	1300	1	R. Atalaya, Lima
116) OAX6P	1300	0.4	R. Latina, Tacna
117) OAZB—	1300	1	R. Monterreal, Pucallpa
118) OAX7X	°1300	0.3	R. Juliaca, Juliaca: 12.00-14.00, 17.00-19.00, 22.00-04.00
119) OAX4I	°1320	10	R. La Cronica, Lima
120) OAX1F	°1320	1	R. Talara, Talara
121) OAX9C	°1340	1	R. Tropical, Tarapoto
122) OAX6L	°1340	0.5	R. El Misti, Arequipa
123) OAX5D	1340	0.5	R. Chincha, Chincha
124) OAZ4M	1340	0.2	R. Huaral, Huaral
125) OAX5H	1340	0.5	R. Ayacucho, Ayacucho
126) OBX1K	1340	1	R. San Francisco, Piura
127) OBX7X	1340	0.5	R. Urubamba, Cuzco
128) OAX6Y	1340	0.1	R. San Felipe, Parroquai de Garumas
129) OAX3N	°1350	1	R. Ondas de Huallaga, Huanuco
130) OAX4Y	1360	1	R. Excelsior, Lima: 12.00-05.00
131) OAX7R	°1360	0.35	R. Sicuani, Sicuani
132) OAX3H	1370	1	R. Interamericana, Chimbote
133) OAZ4O	1370	0.5	R. Exito, Huaco
134) OAX8G	1370	0.5	R. Sargento Lores, Iquitos
135) OAX5I	1370	0.5	R. Abancay, Abancay
136) OAX5F	1370	0.5	R. Huancavelica, Huancavelica
137) OBX4V	°1370	1	R. Junin, Huancayo
138) OAX2D	°1370	0.5	R. Cajamarca, Cajamarca: 12.00-05.00
139) OAX1G	°1370	1	R. Tumbes, Tumbes
140) OAX6I	°1370	0.5	R. Moquena, Moquena
141) OBX1M	°1380	1	R. Chulucanas, Chulucanas
142) OAX2W	1380	1	R. Atahualpa, Cajamarca
143) OBX5C	1380	1	R. El Pueblo, Ica
144) OCX4V	1380	0.3	R. Fessa, Cañete
145) OAX6O	1380	1	R. San Martin, Arequipa
146) OAZ4P	1400	0.5	R. San Juan, Tarma
147) OBX4W	°1400	3	R. Callao, Callao: 11.00-05.00
148) OAX2O	1400	1	R. Perú, Chepén
149) OAX6J	°1400	0.2	R. Landa, Arequipa: 12.00-05.00
150) OAX7I	°1400	0.45	R. La Hora, Cuzco
151) OCX7C	°1420	1	R. Collasuyo, Juliaca
152) OAX6S	1420	1.5	R. Toquepala, Tacna
153) OBZ4G	1420	1	R. San Isidro, Lima
154) OAX8Z	1420	1	R. Oriente, Yurimaguas
155) OBX1H	1420	0.5	R. Catacos, Cotacacos
156) OBX5H	°1420	0.4	R. Apurimac, Abancay
157) OAZ4V	1430	0.5	R. Universal, Huancayo
158) OCX4X	°1440	1	R. Continente, Lima: 11.30-06.00
159) OAX6R	1440	1	R. El Tiempo, Arequipa: 13.00-02.00
160) OAX1V	°1460	1	La Voz de Chira, Sullana: 12.00-05.00
161) OAX3C	°1460	0.25	R. Huánuco, Huánuco
162) OAX7W	°1460	1	R. El Sol de los Andes, Juliaca: 11.00-06.00
163) OAX5K	1460	2.5	R. Internacional, Pisco
164) OCY4I	1460	0.5	R. Imperial, Junin
165) OAX3W	1460	1	R. Chimu, Huaráz
166) OCX4D	°1470	1	R. Huancayo, Huancayo: 11.30-04.30
167) OAX7G	°1470	0.15	R. Cuzco, Cuzco: 12.00-05.00
168) OAX6K	°1470	1	R. Tacna, Tacna: 11.00-05.00
169) OAX8H	°1470	0.45	R. La Hora, Iquitos
170) OBX4E	°1480	10	R. Inca, Lima: 11.00-07.00
171) OAX1L	1490	0.25	R. Imperio, San Carlos
172) OAX4M	°1490	0.5	R. Pasco, Cerro de Pasco
173) OAX8J	°1490	1	R. Atlántida, Iquitos: 12.00-05.00
174) OAX5L	°1490	0.25	R. Consejo Provincial de Abancay
175) OAX5N	°1490	0.3	R. Nazca, Nazca: 12.00-06.00
176) OBX4I	°1500	10	R. Santa Rosa, Lima: 11.00-04.00

	Call	kHz	m	kW	Name and h of tr.
177)	OCX4J	°1510	0.1		R. Tarma, Tarma: 12.00-05.00
178)	OAX2L	1510	1		R. Sudamericana, Pacasmayo
179)	OAX6M	1510	1		R. Universidad, Arequipa
180)	OBX4D	1520	1		R. Reloj, Lima: 24 h
181)	OAZ4D	°1520	0.5		R. Minería, La Oroya: 12.00-05.00
182)	OAX1C	°1520	1		R. Delcar, Chiclayo: 00.00-05.30
183)	OBX7U	°1520	0.25		R. Maldonado, Pto. Maldonado
184)	OBZ4S	°1530	1		R. Nuevo Voz del Centro, El Tambo
185)	OAZ4Q	1538	0.5		R. Jauja, Jauja: 11.00-05.00
186)	OAX6Q	1540	5		R. Sur Peruana, Arequipa: 13.00-02.00
187)	OBX4N	°1540	0.3		R. Corporación, Cerro de Pasco: 10.00-05.00
188)	OAZ4N	1540	0.15		R. San Pedro, Mala
189)	OAX2Y	1540	0.5		R. Heróica, Trujillo
190)	OBZ4U	1540	1		R. Barranca, Barranca
191)	OCX4F	°1560	1		R. Mundo, Huancayo: 11.00-05.00
192)	OAX7U	1560	0.35		R. Universidad, Cuzco
193)	OAX2X	1560	1		R. Primavera, Trujillo
194)	OAX7Y	1570	1		R. Prelatura Nullios de Sicuani, Cuzco
195)	OBZ4V	1570	1		R. Universal, Huacho
196)	OAX5M	°1580	0.15		R. Villarica, Huancavelica
197)	OBX7Q	°1580	0.5		R. Triunfo, San Blas: 12.00-04.00
198)	OAX3M	1580	1		R. Regional, Chimbote
199)	OCY4B	1580	0.5		R. Oxapampa, 12.00-04.00
200)	OAZ4Z	1590	5		R. Agricultura, Lima: 10.00-05.00

Shortwaves: *) Inactive

	Call	kHz	m	kW	Name and h of tr.
162)	OBX7D	3230	93.00	0.4	R. El Sol de los Andes Juliaca: 11.00-06.00
56)	OBX4U	3240	92.59	1	R. América, Lima: 13.00-05.05
16)	OAZ4C	3250	92.31	0.4	R. La Oroya, La Oroya
151)	OCX7D	3250	92.31	1	R. Collasuyo, Juliaca
67)	OBX1E	3280	91.40	1	R. San Miguel, Piura
13)	OBZ4E	3290	91.19	0.5	R. Cultura, Callao: 22.30-03.15
137)	OBX4Y	3300	90.85	0.45	R. Junin, Huancayo: 12.00-05.00
201)	OBZ4I	3320	90.34	1	R. Erpa, Cañete: 12.00-02.00
46)	OAX1M	3330	90.09	1	R. Progreso, Piura: 12.00-05.00
129)	OAX3Q	3330	90.09	0.5	R. Ondas de Huallaga, Huanuco
202)	OBX7K	3335	89.95	1	R. La Convención, Quillabamba: 11.00-04.00
15)	OAX5E	3350	89.55	1	R. Independencia, Ica
98)	OBX4Z	3355	89.42	1	R. Luz, Lima: 12.00-05.00
161)	OAX3D	3360	89.29	0.5	R. Huánuco: 12.00-05.00
90)	OAX1O	3380	88.76	1	R. Chiclayo: 12.00-05.00
55)	OBZ4M	3385	88.63	1	R. La Voz del Valle del Mantaro, Jauja
203)	OCX4R	3390	88.50	0.3	R. Industrial, La Oroya
204)	OCX4T	4870	61.60	0.5	R. Obispado de Huancayo: 17.00-06.30
170)	OCX4W	4762	63.00	0.25	R. Inca, Lima: 11.00-07.00
138)	OAX2G	4770	62.89	0.5	R. Cajamarca, Cajamarca: 12.00-05.00
61)	OAX3V	4785	62.70	1	R. Horizonte, Huanuco
175)	OAX5X	4790	62.63	0.4	R. Nazca, 12.00-06.00
9)	OBX7C	4800	62.50	0.5	R. Onda Azul, Puno: 10.45-04.15
184)	OCY4S	4800	62.50	1	R. Nueva Voz de Centro, El Tambo
69)	OAX8X	4815	62.31	1	R. Amazonas, Iquitos: 11.00-05.00
8)	OAX5U	4815	62.31	1	R. La Voz de Huamanga
80)	OAX7K	4820	62.24	0.45	R. Puno, 01.00-04.00
38)	OAX8R	4825	62.18	1	R. San José, Iquitos: 11.00-02.00
140)	OAX6Z	4825	62.18	0.5	R. Moquegua
156)	OBX5I	4830	62.11	4	R. Apurimac, Abancay
71)	OAX3W	4830	62.11	0.5	R. Tingo Maria: 11.00-06.00
22)	OAZ4J	4835	62.05	0.5	R. Sudamericana, Lima
131)	OAX7T	4835	62.05	0.35	R. Sicuani, Sicuani
173)	OAX8F	4840	61.98	1	R. Atlántida, Iquitos: 12.00-05.00
62)	OBX5E	4840	61.98	1	R. Andahuaylas: 11.30-14.00, 21.30-04.00
160)	OAX1X	4845	61.92	1	La Voz de Chira, Sullana: 12.00-05.00
169)	OAX8I	4855	61.79	0.5	R. La Hora, Iquitos
205)	OCX7E	4855	61.79	0.5	R. Puerto Maldonado
147)	OCX4B	4860	61.73	1	R. Callao: 11.00-05.00
85)	OCX4E	4880	61.48	1	R. Once Sesenta, Lima: 12.00-05.00
196)	OAX5V	4885	61.45	1	R. Villarica, Huancavelica
81)	OAZ4T	4895	61.29	1	R. Chanchamayo, La Merced: 11.00-05.00
206)	OAZ8A	4902	61.20	0.5	Inst. Linguistico, Yarinacocha
88)	OAX2K	4910	61.10	0.5	R. Libertad, Trujillo: 12.00-05.00
91)	OBX7V	4910	61.10	1	R. Tahuantisuyo, Cuzco
53)	OAX2H	4915	61.03	0.5	R. La Hora, Trujillo: 12.00-06.00
104)	OBX7H	4920	60.89	1	R. Ondas del Titicaca, Puno
174)	OAX5Q	4934	60.80	0.25	R. Consejo Provincial de Abancay
121)	OAX9E	4935	60.80	1	R. Tropical, Tarapoto: 11.00-05.00
122)	OAX6N	4940	60.73	0.5	R. El Misti, Arequipa: 11.00-04.30
146)	OAZ4R	4940	60.73	0.5	R. San Juan, Tarma: 12.00-04.30
107)	OAZ4I	4945	60.67	0.4	R. Huacho, Huaco: 12.00-05.00
99)	OAX7I	4950	60.60	0.5	R. Madre de Dios, Puerto Maldonado: 15.15-07.30
207)	OAX5S	4955	60.54	1	R. Amauta, Huanta: 11.00-05.00
111)	OAX1S	4960	60.48	0.5	R. Lambayeque, Chiclayo: 11.15-05.00
19)	OBX1Q	4970	60.36	1	R. San Juan, Piura
208)	OCX7D	4970	60.36	1	R. Puno, Puno
10)	OCX4H	4975	60.30	5	R. del Pacifico, Lima
183)	OBX7W	4980	60.25	0.3	R. Maldonado, Puerto Maldonado
209)	OAX9I	4980	60.25	0.3	R. Huallaga Central, Tarapoto: 03.30-06.30
42)	OCX4O	*4985	60.18	10	R. Nacional, Lima
197)	OBX7R	4990	60.12	1	R. Triunfo, San Blas: 12.00-04.00
141)	OBX1O	4990	60.12	1	R. Atlanta, Chulucanas: 12.00-05.00
113)	OAZ4C	4995	60.06	1	R. Andina, Huancayo: 11.00-05.00
210)	OAX2S	5005	59.94	0.25	R. Jaén, Jaén
105)	OAX8V	5010	59.88	0.4	R. Eco, Iquitos: 12.00-05.00
41)	OAX5O	*5010	59.88	1	R. Pisco, Pisco
118)	OAX7Z	5015	59.82	0.35	R. Juliaca, Juliaca: 12.00-14.00, 17.00-19.00, 22.00-04.00
211)	OAX7O	5025	59.70	0.3	R. Quillabamba: 12.00-04.00
212)	OBX7F	5035	59.58	0.5	R. Ayaviri, 11.00-04.00
213)	OAX6U	5035	59.58	1	R. Ilo, Ilo: 12.00-05.00
26)	OCY4E	5040	59.52	10	R. Mar, Lima
139)	OAX1J	5050	59.41	0.4	R. Tumbes, 12.00-05.00
84)	OAX8E	5050	59.41	2	R. Loreto, Iquitos: 10.00-07.00
114)	OBX7O	5055	59.35	1	R. Onda Imperial, Cuzco: 16.00-07.00
177)	OAZ4A	5058	59.31	1	R. Tarma, 12.00-05.00
214)	OAX6A	5950	50.42	0.25	R. Arequipa: 11.00-04.30
166)	OAX4P	5955	50.39	0.5	R. Huancayo: 11.30-04.30
57)	OAX7L	5960	50.34	1	La Voz del Altiplano, Puno: 11.00-05.00
47)	OBX4Q	5970	50.25	10	R. El Sol, Lima: 11.00-05.00
52)	OBX4M	5980	50.17	5	R. Panamericana, Lima: 12.00-16.00, 23.00-04.00
87)	OAX1W	5990	50.08	1	R. Nacional, Tumbes
56)	OAX4V	6010	49.92	10	R. America, Lima; 13.00-05.05
28)	OAX4Q	6020	49.83	1	R. Victoria, Lima: 11.00-06.00
59)	OAX8B	*6028	49.77	1	R. Nacional, Iquitos
149)	OAX6B	6035	49.71	1	R. Landa, Arequipa: 11.00-05.00
214)	OAX6A	6042	49.65	0.25	R. Arequipa: 11.00-04.30
176)	OCY4H	6045	49.63	10	R. Santa Rosa, Lima: 11.00-04.00
23)	OAX6E	6055	49.55	1	R. Continental, Arequipa: 11.00-06.00

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Call	KHz	m	kW	Name and h of tr.
215) OAX8L	6042	49.48	0.25	R. Telesar, Pucallpa
60) OAX4S	6070	49.42	0.3	R. Onda Popular, Lima: 24h
42) OAX4Z	6082	49.32	15	R. Nacional, Lima: 11.00-05.00
66) OAX4H	6095	49.22	10	R. Oficial del Congreso del Peru, Lima: 12.00-05.00
77) OAX6F	6105	49.14	1	R. Nacional, Tacna: 12.00-05.00
45) OBZ4O	6115	49.06	10	R. Union, Lima
119) OCX4A	6123	49.01	1	R. La Cronica, Lima
167) OAX7A	6128	48.96	0.1	R. Cuzco, Cuzco: 12.00-05.00
172) OCX4P	6135	48.90	0.5	R. Pasco, Cerro de Pasco: 11.00-04.59
182) OAX1A	6140	48.86	0.2	R. Delcar, Chiclayo: 00.00-05.30
216) OAX9B	6140	48.86	0.2	R. Amazonas, Chachapoyas
181) OAZ4E	6145	48.82	0.5	R. Mineria, La Oroya: 12.00-05.00
130) OBX4G	6150	48.78	2	R. Excelsior, Lima: 12.00-05.00
100) OAX8Q	6155	48.74	1	R. Pucallpa: 10.30-05.00
191) OCX4G	6160	48.70	1	R. Mundo, Huancayo: 11.00-05.00
64) OAX2A	6165	48.66	0.4	R. Trujillo, Trujillo: 12.15-05.30
187) OBX4B	6170	48.62	0.35	R. Corporación, Cerro de Pasco: 10.00-05.00
91) OAX7C	6175	48.58	0.3	R. Tahuantisuyo, Cuzco
101) OBX4P	6180	48.54	0.5	R. Miraflores, Miraflores
92) OAX4G	6190	48.47	0.4	R. Lima, Lima: 12.00-06.00
24) OAX1Y	6198	48.40	0.3	R. Sudamericana, Piura: 12.00-05.00
168) OAX6H	9500	31.58	1	R. Tacna, Tacna: 11.00-05.00
84) OAX8F	9504	31.56	2	R. Loreto, Iquitos: 10.00-07.00
56) OAX4V	9510	31.55	5	R. América, Lima: 13.00-05.05
119) OAX4J	9520	31.51	5	R. La Cronica, Lima: 12.00-05.00
77) OAX6G	9530	31.48	0.3	R. Nacional, Tacna
50) OAX4K	9545	31.43	0.5	R. Central, Lima: 12.00-06.00
87) OAX1Z	9550	31.41	1	R. Nacional, Tumbes: 11.00-05.00
42) OAX4R	9562	31.37	50	R. Nacional, Lima: 21.00-05.00
86) OAX7F	9570	31.35	10	R. Nacional, Puno
79) OBX4K	9585	31.30	0.5	R. Selecta, Lima: 13.00-04.30
103) OAX5C	9590	31.28	0.2	R. Ica, Ica
89) OAX3E	9600	31.25	0.5	R. Huaráz, Huaráz
120) OAX1R	9600	31.25	0.45	R. Talara, Talara
59) OAX8C	9610	31.22	1	R. Nacional, Iquitos: 12.00-05.00
162) OBX7E	9618	31.19	0.5	R. El Sol de los Andes, Juliaca: 11.00-06.00
173) OAX8K	9625	31.17	1	R. Atlántida, Iquitos: 11.00-05.00
54) OCX4K	9635	31.14	1	R. Expreso, Lima; 12.00-05.00
102) OAX1T	9645	31.10	0.5	R. Grau, Piura
106) OAX9G	9655	31.07	1	R. Nor Peruana, Chachapoyas: 12.00-06.00
105) OAX8U	9665	31.04	1	R. Eco, Iquitos: 12.00-05.00
10) OAZ4L	9675	31.01	7.5	R. del Pacifico, Lima: 12.00-03.00
158) OCX4Y	9695	30.94	1	R. Continente, Lima: 11.30-06.00
121) OAX9D	9710	30.90	1	R. Tropical, Tarapoto: 11.00-05.00
28) OAX4C	9720	30.86	1	R. Victoria, Lima
150) OAX7J	*9730	30.83	0.45	R. La Hora, Cuzco
26) OCY4F	9740	30.80	10	R. Los Andes, Lima
217) OAX8W	9755	30.75	2.1	R. Sideral, Pucallpa
69) OAX8O	9770	30.71	1	R. Amazonas, Iquitos: 11.00-05.00
42) OBX4R	11914	25.19	40	R. Nacional, Lima: irr
42) OAX4T	*15150	19.80	150	R. Nacional, Lima
47) OBX4C	*15180	19.76	1	R. El Sol, Lima
42) OCX4O	*17890	16.77	10	R. Nacional, Lima
42) OBX4T	*21600	13.89	50	R. Nacional, Lima

Abbreviations: Cities of Lima and Callao = Cal.
Departments: (Departamentos): Ama = Amazonas; Anc = Ancash; Apu = Apurimac; Are = Arequipa; Aya = Ayacucho; Caj = Cajamarca; Cuz = Cuzco; Hua = Huanuco; Huc = Huancavelica; Ica = Ica; Jun = Junin; Lam = Lambayeque; Lib = La Libertad; Lim = Lima; Lor = Loreto; MDi = Madre de Dios; Moq = Moquegua; Pas = Pasco; Piu = Piura; Pun = Puno; SMa = San Martin; Tac = Tacna; Tum = Tumbes.

Addresses and other information:
1) Chimbote, Anc.
2) Av. Abancay 210, Lima.
3) Cas. 117, Chimbote, Anc. **L.P:** Dir. Gen: D. Caamaño M. Dir Tec: B. Ramirez. V. by letter. Rec. acc.
4) Conde de Nieva 125, Ica, Ica. **L.P:** Dir: J. Panizzo.
6) Ca. Lima 578, Chepén, Lib.
7) Av. de la Cultura s/n, Cuzco, Cuz.
8) 2 de Mayo 403, Huamanga, Aya. **L.P:** Dir: F. Cruz M.
9) Cas. 210, Puno, Pun. V. by QSL-card or letter. Rec. acc.
10) Apt. 4234, Lima, Lim. **Te:** 76911. **Cable:** Team Lima. **L.P:** Dir. Gen: N. Mydske. Mgr: P. Ferreira G. Dir. Tec: J. Newing. **D.Prgr:** N: 13.00, 14.00, 15.00, 16.00, 17.00, 02.00. V. by letter. Rec. acc. **FM:** 102MHz 1kW.
11) Av. Salaverry s/n, Ica, Ica. **L.P:** Dir: A. Nieri B.
12) Av. Victor Larco s/n, Trujillo, Lib.
13) Jr. Buenos Aires 934, La Punta, Callao. **Te:** 90798. **L.P:** Dir. Gen: R. Nieto. St. Mgr: M. Nieto. Dir. Tec: S. Raspa.
15) Conde de Nivca 125, Ica, Ica.
16) Ca. Tarma 195, La Oroya, Jun.
17) Jr. Villavicencio 267, Chimbote, Anc.
18) Av. de la Marina, Manzana HG, San Miguel, Lim.
19) Piura, Piu. **L.P:** Dir: J. Palacio P.
21) Independencia 565, Trujillo, Lib.
22) Teodoro Cardenas 641, Lima, Lim.
23) Rivera 101, Arequipa, Are. **L.P:** Mgr: J. A. Umbert F. V. by letter.
24) Ca. Tacna 871, Piura, Piu.
25) Manuel Ruiz 504, Chimbote, Anc. **L.P:** Dir: J. Castro S.
26) Pablo Bermudez 214, Lima, Lim.
27) Av. Jauregui s/n, Juliaca, Pun. **L.P:** Dir: J. Cornejo P.
28) Av. Tacna 225, Lima, Lim. **Te:** 43966. **Cable:** Radiovictor. **L.P:** Dir: V. Rosales. V. by letter.
29) Urbanización California, Trujillo, Lib.
30) Ca. Derecha 483, Huaral, Lim. **L.P:** Dir: S. Kong M.
31) Av. Arenales 1050, Ica, Ica. **L.P:** Dir: M. Delgado.
32) Ca. Pablo Nosiglia 235, Cañete, Lim.
34) Av. Raymondi 449, Tingo Maria, Hua. **Te:** 2024. **L.P:** Dir. Gen: J. R. Vildoso L. Dir. Tec: G. Torres. V. by letter.
37) Amazonas 140, Chiclayo, Lam.
38) Indiana, Prov. de Maynas, Ama. **L.P:** Dir: D. Cournoyer. Reports to Apt. 216, Iquitos.
39) Jirón Belen 1038, Lima, Lim.
40) Ca. Manco Capac 115, Casma, Anc.
41) Av. Huayna Capac 1345, Pisco, Ica. **L.P:** Dir: A. Pereyra B.
42) Av. Petit Thouars 441, Lima. Lim. **Te:** 42128. V. by QSL-card.
43) Fco. Irazola, Manzana 10, Santipo, Jun.
44) Camino A. Pimentel, Chiclayo, Lam. **L.P:** Dir: G. Delgado B.
45) Av. Abancay 377, Lima, Lim.
46) Cas. 254, Piura, Piu. **Te:** 3109. **L.P:** Dir. Gen: A. Umbert. Dir. Tec: D. Capela. V. by letter. Rec. acc.
47) Av. Uruguay 355, Lima, Lim. **Te:** 33905.
48) Juan Guglievan 673, Chiclayo, Lam.
49) Jirón Loreto 359, Huancayo, Jun.
50) Belén 1038, Lima, Lim.
51) Apt. 129, Sicuano, Coz. **L.P:** Dir: R. Aguilar C.
52) Av. Arequipa 1110, Lima, Lim. V. by letter.
53) Zepita 439, Trujillo, Lib.
54) Carzabore y Unanue 271, Lima, Lim. **Te:** 45035.
55) Ca. Junin 1131, Jauja, Jun. V. by letter.
56) Cas. 1192, Lima, Lim. **Te:** 23-5299. V. by QSL-card.
57) Apt. 130, Puno, Pun. **L.P:** Dir. Gen: H. Carbajal D. Dir. Tec: V. Villar A. **D.Prgr:** N: 12.30, 18.00, 02.00. V. by QSL-card. Rec. acc.
59) Cas. 400, Iquitos, Lor. **Te:** 2318. **L.P:** Dir. Gen: F. Odria L. Dir. Tec: E. Alva R. V. by letter. Rec. acc.
60) Colmena 624, Lima, Lim. **Te:** 270350. **L.P:** Dir. Gen: G. Moralez L. Dir. Tec: J. Ferrier. V. by QSL-card. Rec. acc.
61) Apt. 25, Tingo Maria, Hua. **L.P:** Dir: T. Maldonado.
62) Guillermo Cácerez Tresierra 188, Andahuaylas, Apu. **Te:** 9. **L.P:** Dir: T. Muñoz I. Mgr: D. A. Casafranca. Dir. Tec: F. Cruz M. V. by letter.
63) Av. Colonial 1012, Titular, Lima, Lim. **L.P:** Dir. Gen: P. Telloc C. Dir. Tec: G. Rojas. V. by letter. Rec. acc.
64) Plaza de Armas, Edif. de la Beneficencia 303, Trujillo, Lib. **L.P:** Dir: J. Castro. V. by letter.
65) Av. Los Incas 130, Pto. San Juan, Marcona, Nazca, Ica. **L.P:** Dir. Gen: E. Seibt K. Dir Tec: D. Capella R. V. by letter. Rec. acc. Rpts. to Apt. 1229, Lima.
66) Av. Abancay 210, Lima, Lim. **Te:** 77541.

67) Av. Sánchez Cerro 2A Cuadra, Piura, Piu.
68) Ca. Almirante s/n, Cuzco, Cuz.
69) Cas. 494, Iquitos, Lor. Te: 2740. L.P: Mgr: M. Melendez C. Dir. Tec: J. Flores. V. by letter. Rec. acc. Rp.
70) Amazonas 798, Chachapoyas, Ama.
71) Apt. 25, Tingo Maria, Hua. L.P: Dir. Gen: L. Infantas Guerra. D.Prgr: N: on the h. V. by letter.
72) Cra. Panamericana Nte. KM 187.5, Barranca, Lim. L.P: Dir: J. Lesmar.
73) Ca. 2 de Mayo 573, Cañete, Lim.
74) Municipalidad 245, Ica, Ica.
75) Real 270 El Tambo, Huancayo, Jun. Te: 3264. L.P: Dir. Gen: G. H. Barreto R. Dir. Tec: M. Vera O. V. by letter. Rec. acc.
77) Cas. 113, Tacna, Tac. V. by letter.
78) Ca. Lima 630, Chepén, Lam.
79) Av. Nicolas de Pierola 1014, Lima, Lim.
80) Ca. Arequipa 100, Puno, Pun. L.P: Dir. Gen: J. Zea Gonzales. Dir. Tec: R. Laso V. V. by QSL-card.
81) Apt. 96, La Merced, Jun. Te: 2197. L.P: A. Espejo P. D.Prgr: N: 11.30, 16.30. V. by letter. Rec. acc.
82) Ca. Real 188, Pilcomayo, Huancayo, Jun. L.P: Dir: Luis Petrick M.
83) Jirón Maurta 189, Chinca Alta, Ica.
84) Jr. Arica 228, Iquitos, Lor. Te: 2392. L.P: Dir. Gen: R. Cruzado O. Dir. Tec: D. Capella. V. by letter. Rec. acc.
85) Huáraz 2098, Lima, Lim. L.P: Dir. Tec: J. Seminario.
87) Rosales A. Tumbes, Tum. V. by letter.
88) Jirón Zepita 450, Trujillo, Lib.
89) Jirón Cuzco 107, Huaraz, Anc. Te: 2360.
90) Edif. Banco Popular 4, Chiclayo, Lam.
91) Av. El Sol 830, Cuzco, Cuz.
92) Esq. Petit Thouars 3ra Cuadra, Lima, Lim. V. by letter.
93) Sede del Vicariato Apostólico de Iquitos, Lor.
94) Mariscal Orbegozo 266, Trujillo, Lib. Te: 3933. L.P: Dir. Gen: L. F. Cook L. Dir. Tec: V. Alvarez R. V. by letter. Rec. acc.
95) Av. Progreso s/n, Dist. Grocio Prado, Chincha, Ica. L.P: Dir: D. Villa de la Cruz.
96) Ca. Victoria 299, Guadalupe, Lib.
97) Moguegua 648, Tarma, Jun. L.P: Dir: C. Anagua Ch.
98) Av. Tacna 543, Lima, Lim. Te: 80253. L.P: Dir: C. Vinatea. V. by QSL-card.
99) Apt. 37, Pto. Maldonado, MDi. L.P: R. P. V. Lazcano. Dir. Tec: E. Cerveró D.Prgr: N: 17.00, 17.30, 22.00, 01.30, 02.00. V. by letter.
100) Cas. 246, Pucallpa, Lor. L P: Dir. Gen: D. Zevallos. Dir. Tec: T. Aldol.
101) Las Alcanjores 592, Miraflores, Lima, Lim.
102) Jirón Cuzco 850, Piura, Piu. L P: Dir: J. Giron S.
103) San Martin 251, Ica. Ica.
104) Ca. Arequipa 323, Puno, Pun.
105) Ca. Morona 158, Iquitos, Lor. L P: Dir: R. Reátegui.
106) Jirón 2 de Mayo 642, Chachapoyas, Ama. L.P: Dir: M. Muñoz C. Dir. Tec: M. R. Fernández. D.Prgr: N: 14.00, 18.00, 04.00. V. by letter.
107) Av. Echenique 140, Huacho, Lim. L.P: Dir: José E. Cavero.
108) Av. Junin 163, La Merced, Jun. L.P: Dir: T. Fidelhi E.
109) Callao 458, Lima, Lim.
111) Av. Balta 413, Chiclayo, Lam.
112) Gamarra 104, Huaraz, Anc. Te: 2004. L.P: Dir. Gen: F. A. Sotelo. Dir. Tec: L. Petrik. V. by letter.
113) Ca. Real 319, Chilca, Huancayo, Jun. L.P: Dir: F. Cruz M. V. by letter.
114) Cas. 40, Cuzco, Cuz. V. by QSL-card and letter.
115) Huaraz 2098, Breña, La Victoria, Lima, Lim.
116) Ca. San Martin 561, Tacna, Tac. L.P: Dir: C. Urday B.
118) Ca. 9 de Diciembre 199, Juliaca, Pun. L.P: Dir. Gen: J. Zea Gonzalez. V. by letter.
119) Apt. 1166, Lima, Lim.
120) Altos Cine Talara, Talara, Piu.
121) Cas. 31, Tarapoto, SMa. L.P: Mgr: J. Pablo M. Dir. Tec: B. Gimenez P. D.Prgr: N: 17.30, 22.00. V. by letter. Rec. acc. Rp.
122) Apt. 657, Arequipa, Are. L.P: Mgr: R. Zuñiga G.
123) Los Angeles 322, Chinca, Ica. L.P: Dir: C. Jordán C.
124) Av. Cahuaz 447, Hural, Lim.
125) 28 de Julio 203, Ayacucho, Aya.
126) Av. Sánchez Cerro 450, Piura, Piu.
129) Apt. 343, Huanuco, Hua. Te: 2248. L.P: Dir: F. Llanos M. V. by letter.
130) Av. Manco Capac 333, La Victoria, Lima, Lim.
131) Plaza de Armas 106, Sicuani, Cuz. V. by letter.
132) Alfonso Ugarte 445, Chimbote, Anc.
133) La Merced 159, Huaco, Lim.
134) Inspeccion Gen. del Ejercito, Iquitos, Lor.
135) Ca. Lima 206, Avancay, Apu.
136) Chachapoyas 104, Huancavelica, Huc.
137) Jirón Callao 120, Huancayo, Jun. L.P: Mgr: T. Tasa Z. V. by QSL-card.
138) Plaza de Armas, Cajamarca, Caj.
139) Bolivar 111, Tumbes, Tum.
140) Sede de la Soc. Filarmónica, Ayacucho 454, Moquegua, Moq.
141) Ica 321, Chulucanas, Piu. Te: 84. L.P: Dir. Gen: J. Palacios P. St. Mgr: O. Cruz Zapata. Dir. Tec: R. R. del Valle. V. by letter. Rec. acc.
142) Apurimac 759, Cajamarca, Caj. L.P: Dir: J. Castro S.
143) Ca. Callao 295, Ica, Ica. L.P: Dir: P. Flores M.
144) Av. Mariscal Benavides, Cañete, Lim.
145) Pierola 202, Arequipa, Are. L.P: Owner: Padres Sto. Domingo.
146) Ca. Huanuco 488, Tarma, Jun. Te: 2580. L.P: Dir: T. Fidehl F. V. by letter.
147 Colón 260, Callao, Cal. Te: 291.000. L.P: Dir. Gen: F. Delgado L. Dir. Tec: L. Gálvez P. V. by letter. Rec. acc.
148) Ca. Lima 630, Chepén, Lib. L.P: Dir: Verástegui B.
149) Ca. Sucre 409, Arequipa, Are. L.P: Dir: M. J. Landa. V. by QSL-card.
150) Ca. San Bernado 132, Cuzco, Cuz.
152) Campamento de Empleados Toquepala, Tacna, Tac.
153) Av. Arequipa 3755, Lima, Lim.
154) Av. Bolivar 14, Yurimaguas, Lor.
155) Ca. Comercio 590, Catacaos, Piu.
156) Abancay, Apu. L.P: Dir: R. Montesinos L.
157) Ca. Real 578, Tambo, Huancayo, Jun.
158) Jr. Camana 615, Of. 802, Lima, Lim. Te: 73074.
159) Ca. Santa Marta 310, Arequipa, Are. L.P: Dir: T. Borja V.
160) Sucre 556, Sullana, Piu.
161) Municipalidad de Huánuco, Huanuco, Huo.
162) Cas. 11, Juliaca, Pun. Te: 81. L.P: Dir. Gen: S. Davila U. Dir. Tec: E. Esquivias. D.Prgr: N: 11.30, 12.00, 17.30, 23.00, 24.00. V. by letter. Rec. acc.
163) Av. 8 de Setiembre 210, Pisco, Ica.
164) Simón Bolivar 505, Junin, Jun. L.P: Dir. A. Torres A.
165) Villa Mona s/n, Huaráz, Anc.
166) Cas. 187, Huancayo, Jun. L.P: Dir: A. Elejalde G.
167) Ca. Shapi 601, Cuzco, Cuz.
168) Apt. 188, Tacna, Tac. Te: 2232. L.P: Dir. Gen: Y. de Cáceres. Dir. Tec: P. Coaquera. D. Prgr: N: 13.00, 18.00; 24.00, 01.00, 02.30. V. by letter. Rec. acc.
169) Ca. San Martin 126, Iquitos.
170) Av. Wilson 1191, Lima, Lim. V. by QSL-card. Rec. acc.
171) Ca. República 139, San Carlos, Chiclayo, Lam.
172) Apt. 128, Cerro de Pasco, Pas. Te: 211. L.P: Mgr: H. Maldonado B. Dir. Tec: G. Malpartida M. V. by letter. Rec. acc.
173) Apt. 277, Iquitos, Lor. V. by QSL-card.
174) Sede del Consejo Provincial de Abancay, Abancay, Apu.
175) Apt. 54, Nazca, Ica. V. by letter. Rp. Rec. acc.
176) Cas. 4451, Lima, Lim. L.P: Dir: P. F. Villena P. Te: 77485. V. by letter.
177) Cas. 167, Tarma, Jun.
178) Ca. Junin 59, Pacasmayo, Lib.
179) Univ. Nacional de San Augustin, Arequipa, Are.
180) Jr. Ocoña 484, Lima, Lim.
181) Ca. Dario 425, Yauli, Jun.
182) Av. Balta 628, Chiclayo, Lam. V. by letter.
183) Esq. Puno, Pto. Maldonado, MDi. L.P: Dir: R. Montesinos. V. by letter.
184) Real Tambo 600, El Tambo, Jun. Te: 3374.
185) Jirón Junin 901, Jauja, Jun. Te: 67. L.P: Dir. Gen: A. Salas M. Dir. Tec: C. Salas N. D. Prgr: N: 01.00, 17.00, 03.00. V. by letter. Rec. acc.
186) Apt. 1015, Arequipa, Are. L.P: Dir: G. Quintanilla P.
187) Apt. 19, Cerro de Pasco, Pas. Ann: "La Voz de Cerro de Pasco."
188) Av. 27 de Octubre, Mala, Lim. L.P: Dir: R. Pachas C.
189) Trujillo, Lib.
190) Apt. 23, Barranca, Lim. Te: 2301. L.P: Dir. Gen: A. Salazar S. D. Prgr: N: 01.00, 17.00, 00.00. V. by letter. Rec. acc.
191) Ca. Real 455, Huancayo, Jun. L.P: Dir: M. Huanay G. V. by letter.
192) Local de la Universidad Nacional del Cuzco, Cuz.
194) Apt. 46, Cuzco, Cuz.
195) José y Garcia 164, Huacho, Lim. L.P: Dir: C. Minaya.
196) Virrey Toledo 468, Huancavelica, Huc. L.P: Dir: F. Cruz M.
197) Apt. 583, Cuzco, Cuz. L.P: Dir: E. F. Gonzáles. D. Prgr: N: 17.15, 23.00. V. by QSL-card. Rec. acc.
199) Apt. 38, Oxapampa, Pas. L.P: Dir. Gen: O. W. Maldonado V. Mgr: T. Fidehl F. V. by letter. Rec. acc.
200) Av. 9 de Diciembre 317, Lima, Lim. Te: 244308. L.P: Dir. Gen: B. Dextre F. Dir. Tec: A. Telleria S. D. Prgr: N: 13.30, 14.30, 15.30, 16.30, 20.30, 21.30, 22.30. V. by letter. Rec. acc.
201) Apt. 70, Cañete, Lim. Te: 2261. L.P: Dir: F. Coll C. Dir. Tec: J. A. Lasunción R. D. Prgr: N: 13.30. V. by letter. Rec. acc.

202) Cas. 201, Quillabamba, Cuz. Te: 197. L.P: Dir: E. Romero R. V. by letter.
203) Jirón Arequipa 201, La Oroya, Jun.
204) Palacio Arzobispal, Huancayo, Jun. V. by letter. Rec. acc.
205) Puerto Maldonado, MDi. V. by letter.
207) Cas. 245, Huanta, Aya. L.P: Dir. Gen: M. D. Cueva T. Dir. Tec: V. Saico T. V. by QSL-card. Rec. acc.
209) Apt. 132, Tarapoto, SMa. L.P: Dir. Gen: Sra. L. F. Ramírez L. Dir. Tec: E. Leahey H. Dir. Prgr: P. Castillo.
210) Ca. Comercio 301, Jaén, Caj. L.P: Dir: A. Vilchez R.
211) Apt. 76, Quillabamba, Cuz. Te: 33. L.P: Dir: C. L. Llana S. Dir. Tec: E. Cervero C. D. Prgr: N: 18.45, 00.30. V. by letter. Rec. acc.
212) Jorge Chavéz 305, Ayaviri, Pun. Te: 128. L.P: Dir. Gen: J. A. Solórzano M. Dir. Tec: G. Valdivia M. D. Prgr: N: 11.15, 23.00, 02.00. V. by letter. Rec. acc.
213) Cas. 90, Ilo, Moq. Te: 196. L.P: Dir. Gen: L. Sardón U. St. Mgr: A. Sardón U. Dir. Tec: R. Quirogan G. D. Prgr: N: 17.30, 01.00. V. by letter.
214) Apt. 657, Arequipa, Are.
215) Jirón Raymondi 185, Pucallpa, Lor. L.P: Dir: A. Chaque. V. by letter.
216) Obispado de Chachapoyas, Ama.
217) Coronel Pornillo 446, Pucallpa, Lor.

SURINAM

L.T: GMT — 3½ h — Pr.L: Dutch, Talkie, Hindustani.

RADIO PARAMARIBO (Comm.)
ADDR: P.O. Box 975, Paramaribo. Te: 4131. Cable: Rapar.
STATION: 600kHz 500m 10kW.
HOME SCE: 08.55-03.30 — N. in Dutch: W 10.05, 11.30, 13.30, 17.30, 19.45, 22.30, 01.30, Sun 23.30 — Hindustani: Mon-Fri 23.30-01.30, Sat 00.30-02.30, Sun 09.30-12.15 and 20.00-21.30 — Chinese: Sun 19.30-20.00 — Indonesian: Sun 12.30-19.30.
ANN: "R. Paramaribo Rapar, de stem van Suriname, op de 500m of 600kHz". E: "R. Paramaribo Rapar, the voice of Surinam, operation on 500 m or 600kHz" — PUB: "Rapargids" (monthly) — E.C: a/c 50 + 60 (yes).

RADIO APINTIE (Comm.)
ADDR: P.O. Box 1838, Paramaribo. Te: 5224. Cable: Fructomel.
STATION: PZX7 840kHz 355m 1kW.
HOME SCE: 09.00-03.30. N. in Dutch: W 13.30, 17.45, 22.30; Sun 11.30 — N. in Local Language: 09.45, 01.10 (exc. Sat) — Hindustani: W 09.00-09.30 (Sat 09.30-09.40), 19.00-21.30 (Wed, Thurs 21.00); Sun 18.15-21.00 — Chinese: Sun 17.30-17.45 — Indonesian: Wed, Thurs 21.00-21.30 —
ANN: "R. Apintie, Paramaribo" — INT-SIG: The beat of the Apintie drum.

R. NICKERIE N.V. (Priv. Comm.)
ADDR: P.O. Box 271, Paramaribo. Te: 98115 — L.P: Gen. Mgr: W. H. Cromwell.
STATIONS: 725kHz 411m 50kW — FM: 93.1MHz 0.01kW.
HOME SCE. in Dutch Negro English, Hindi, Indonesian: 09.30-03.30. N: Every h on the h. English: 00.00.
ANN: "This is SBC, the Suriname Broadc. Corpo. Broadc. from Paramaribo, the Capital City" — V. by QSL-card or letter. Rec. acc.

STICHTING RADIO-OMROEP SURINAME (Gov. Comm.)
ADDR: Pad van Wanica 51, Paramaribo — L.P: Dir: S. Radhakiskun.
STATION: 640kHz 468m 1kW: 70 hrs. weekly.

RADINKA (Priv.)
ADDR: Waterloo-straat, Nieuw Nickerie.
STATION: 3240kHz 92.59m 0.075kW — HOME SCE: 09.30-01.30.

URUGUAY

L.T: GMT — 3 h — Pr.L: Spanish — E.C: a/c 50 (yes).
DIRECCION DE RADIOCOMUNICACIONES, Montevideo
ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS (ANDEBU)
ADDR: Ca. Yi 1264, Montevideo. Te: 84456. Cable: Andebu.
STATIONS: All sts comm. exc. 4), 33), 34).
Medium Waves: ° = Short Wave.

Call	kHz	kW	Name and h of tr.
1) CW1	550	4.5	R. Colonia, Colonia: 10.00-03.00
2) CX58	°580	0.5	R. Clarin, Montevideo: 24 h.
3) CX4	610	5	R. Rural, Montevideo: 10.30-03.00
4) CX6	°650	50	S.O.D.R.E, Montevideo: 09.00-03.00
5) CW27	680	5	R. Tabaré, Salto: 10.00-0500
6) CX8	°690	10/5	R. Sarandi, Montevideo: 24 h.
7) CX10	°730	5	R. Ariel, Montevideo: 09.00-04.00
8) CX12	°770	25	R. Oriental, Montevideo: 10.00-04.00
9) CX14	°810	25	R. El Espectador, Montevideo: 06.00-01.00
10) CW23	820	1	R. Cultural, Salto:
11) CX16	°850	50	R. Carve, Montevideo: 09.00-04.00
9) CX18	°890	10/5	R. Libertad Sport, Montevideo: 06.30-01.00
12) CW17	900	0.25	R. Frontera, Artigas
13) CX20	°930	18	R. Monte Carlo, Montevideo: 24 h
14) CX22	970	1	R. Universal, Montevideo: 09.00-04.00
11) CX24	1010	10	R. Carve, Montevideo: 09.30-04.00
4) CX26	°1050	20	S.O.D.R.E, Montevideo: 06.30-01.00
15) CX28	1090	15	R. Imparcial, Montevideo: 24 h
16) CW31	1120	2.5	R. Salto, Salto
17) CX30	°1130	10	R. Nacional, Montevideo: 07.30-24.00
18) CX32	°1170	10	R. Sur, Montevideo: 07.30-24.00
19) CW33	1200	1	R. Difusora Florida, Florida
20) CX34	1210	2	R. Artigas, Montevideo: 12.00-03.00
21) CW35	1240	2.5	R. Paysandú, Paysandú
22) CX36	1250	3.1	Bc. Centenario del Urug, Montevideo: 10.00-04.00
9) CW37	1260	1	R. Dif. Rochense, Rocha: 11.00-24.00
4) CX38	°1290	1	S.O.D.R.E, Montevideo: 21.00-03.00
23) CW39	1320	0.5	La Voz de Paysandú
24) CX40	°1330	1	R. Fenix, Montevideo: 08.00-05.00
25) CW53	°1340	2.5	La Voz de Melo, Montevideo: 24 h
26) CW41	1360	5	Broadc. San José, San José
27) CX42	1370	2.5	R. Uruvisión, Montevideo: 12.00-03.00
28) CW45	1390	0.25	Dif. Treinta y Tres, Treinta y Tres
29) CX140	1400	10	R. Zorilla de San Martin, Tacuarembo: 09.00-04.00
30) CX44	1410	5	R. Panamericana, Montevideo: 11.00-03.00
31) CW133	1420	0.25	La Voz de Artigas, Artigas
32) CW43	1420	0.5	R. Lavalleja, Minas
33) CW25	1430	5	R. Durazno, Durazno
34) CX46	1450	5	R. América, Montevideo: 11.00-03.00
35) CW46B	1460	0.25	Liceo de Dolores, Soriano
36) CW46C	1467	0.03	Liceo de San Carlos, San Carlos
37) CW147	1470	0.5	R. Montevideo, Las Piedras: 10.30-03.00
38) CW43B	1480	2	R. Internacional, Rivera: 09.30-03.00
39) CW148	1480	0.1	Broadc. Agraciada, Mercedes
40) CX48	1490	2	R. Femenina, Montevideo: 12.00-02.30
41) CW47B	1510	0.1	R. Berna, Nueva Helvecia
42) CX152	1520	0.25	R. Cerro Largo, Melo
43) CX50	1530	1.25	R. Independencia, Montevideo: 09.00-03.00
44) CV153	1530	1	R. Rincón, Fray Bentos: 10.00-03.00
45) CW153	1530	0.1	R. Tacuarembó
46) CX154	1540	0.1	R. Olimar, Treinta y Tres
47) CX155	1550	0.25	R. Carmezo, Carmezo
48) CW51	1560	0.5	R. Maldonado, Maldonado
49) CW156	1560	0.1	R. Arapey, Salto
50) CX156	1560	1	R. America, Trinidad
51) CV156	1560	0.7	R. Vichadero, Vichadero
52) CW52	1570	0.25	R. Litoral, Fray Bentos
53) CV157	1570	0.1	Dif. del Norte, Bella Union
54) CX157	1570	1	R. Canelones: 11.00-02.00
55) CW54	1580	0.25	Emisora del Este, Minas
56) CV158	1580	0.1	R. Rivera, Rivera
57) CX159	1590	0.25	Em. Real de San Carlos, Colonia
58) CW56	1600	0.25	Difusora Soriano, Mercedes
59) CV160	1600	0.1	R. San Carlos, San Carlos
60) CX160	1600	1	R. Rio Branco, Rio Branco

Short Waves: Call CX--, Location: Montevideo exc. where indicated — * = inactive.

	Call	kHz	m	kW	Name and h of tr.
18)	A2	6000	50.00	1	R. Sur: 10.00-03.00
6)	A5	6010	49.92	10	R. Sarandi: 24 h
17)	A30	*6035	49.71	1	R. Nacional
9)	A61	*6045	49.63	2.5	R. Sport
25)	A53	6055	49.55	5	La Voz de Melo Melo: 24 h
7)	A3	6075	49.38	2.5	R. Ariel: 10.00-04.00
2)	A73	*6115	49.06	5	R. Clarin
4)	A4	6125	48.98	10	S.O.D.R.E: 11.00-04.00
13)	A20	*6148	48.80	10	R. Monte-Carlo
11)	A13	6155	48.74	5/7	R. Carve: 15.30-19.00, 23.00-02.00
24)	A21	6170	48.62	1	R. Fenix: 10.00-16.00, 21.00-05.00
6)	A71	9515	31.53	10	R. Sarandi: 24 h
13)	A72	*9595	31.27	10	R. Monte-Carlo
4)	A6	9620	31.19	20	S.O.D.R.E: 10.00-04.00
8)	A7	11735	25.26	10	R. Oriental: 10.00-05.00
9)	A19	11835	25.35	5	El Espectador: 10.00-02.00
6)	A68	11885	25.24	10	R. Sarandi: 24 h
4)	A10	11900	25.21	20	S.O.D.R.E: 10.00-02.30
25)	A64	15230	19.70	25	La Voz de Melo
4)	A14	15270	19.65	0.5	S.O.D.R.E: 12.00-03.10
6)	A60	15385	19.49	10	R. Sarandi: 01.00-08.00

Addresses & other information:

1) Ca. Rivadavia 383, Colonia. Te: 61.
2) Colónia 1487, Montevideo. Te: 405841. L.P: Dir. Ing: F. D. Toureilles. Dir. Tec: G. Duarte. V. by letter.
3) 18 de Julio 1513, Montevideo. Te: 400400. L.P: Mgr: R. Barreto.
4) Mercedes 823, Montevideo. Cable: Sodre. D.Prgr: N: 13.00, 15.00, 20.00, 24.00, 02.55. V. by QSL-card.
5) Uruguay 678, Salto. Te: 1222. L.P: Dir: J. M. Gestoso, Dir. Tec: M. Moller.
6) Corporación de Publicidad S.A, Enriqueta Compte y Rique 1282, Montevideo. Te: 28185. L.P: Mgr: R. Castillo. Dir. Tec: W. Burghi. D.Prgr: N: every h on the h. V. by letter. Rp. Rec. acc.
7) Olimar 1472, Montevideo. Te: 983752. L.P: Dir. Adm: J. U. Pierri. D.Prgr: N: every half h. V. by QSL-card.
8) Olimar 1364, Montevideo. Te: 985183. L.P: Dir. J. C. Shaw. D.Prgr: N: 14.00, 16.00, 20.00, 23.00, 24.00, 01.00, 02.30, 03.30. V. by QSL-card and letter.
9) Difusoras del Uruguay S.A, Soriano 1287, Montevideo. Te: 81481. Cable: Difuruguay. L.P: Dir. Gen: H. Amengual. Dir. Tec: R. Danilo V.
R. Libertad Sport: as above.
Difusora Rochense: Dr. Julián Grana 119, Rocha. V. by letter. Rec. acc.
10) Lavalleja 42-48, Salto. Te: 800. L.P: Dir: R. J. Vinci.
11) Mercedes 973, Montevideo. Te: 983471. Cable: Sadrep. L.P: Dir. Gen: R. Fontaina. Mgr: H. Morás. Dir. Tec: C. M. Urruty. D.Prgr: N: every hon the half h. V. by letter. Rec. acc.
12) Garzón 428, Artigas. Te: 243. L.P: Dir: B. Borgato.
13) 18 de Julio 1224, Montevideo. L.P: Dir. Gen: D. Romay. Dir. Tec: C. Beisso. V. by letter. Rec. acc.
14) Soriano 1217, Montevideo. Te: 92411. L.P: Dir: A. Rodriguez L. Dir. Tec: J. C. Poggi. D.Prgr: N: every half h. 10.30-01.30.
15) Av. Algraciada 1708, Montevideo. Te: 54077. L.P: Dir: J. J. Figueira.
16) Brasil 715, Salto. Te: 615. L.P: Dir: S. E. Pera.
17) O.R.O.S.A, Plaza Independencia 846, Montevideo. Te: 92447. L.P: Dir: L. Svirski. V. by QSL-card.
18) Compañia Uruguaya de Publicidad S.A, Colonia 1280, Montevideo. Te: 88855. L.P: Dir: J. C. da Rosa.
19) Gallinal 696, Florida. Te: 89. L.P: Dir. L. S. Dini.
20) Av. Millan 2370, Montevideo.
21) 18 de Julio 1044, Paysandú. Te: 687. L.P: Dir: A. Ordoqui.
22) Olimar 1364, Montevideo. Te: 88436. L.P: Mgr: F. M. Correa.
23) 18 de Julio 614, Paysandú. Te: 267. L.P: Dir: E. Estafanell.
24) Rio Branco 1366, Montevideo. Te: 90840. L.P: Dir: J. J. Rabassa.
25) Montevideo 721, Melo. L.P: Dir. Gen: R. Lucas.
26) Treinta y Tres 890, San José. Te: 421. L.P: Dir: R. Sguilla M.
27) Mercedes 1805, Montevideo. Te: 44573. L.P: Dir: R. Baz.
28) Pablo Zufriategui 230, Treinta y Tres. Te: 35. L.P: Dir: A. Pinho.
29) 18 de Julio 304/10, Tacuarembó. Te: 79. L.P: Dir: L. S. Dino. Mgr: J. Alvéz. Dir. Tec: E. Siqueira. V. by letter. Rec. acc.
30) 18 de Julio 965, Montevideo. Te: 86244. L.P: Dir: E. Iarlori.
31) Lecueder 291, Artigas. Te: 47. L.P: L. M. Muraró.
32) José E. Rodó 530, Minas. Te: 302. L.P: J. R. Volante.
33) Ca. Dr. E. Penza 804, Durazno. Te: 58. L.P: J. C. Stajano.
34) Olaza Independencia 846, Montevideo. Te: 92447. L.P: L. Svirski.
35) Liceo de Dolores, Soriano.
36) San Carlos, Maldonado.
37) Rivera 640, Las Piedras. L.P: J. J. Rabassa.
38) Av. Sarandí 792, Rivera. Te: 259. L.P: Dir. Gen: J. J. Figueira. Mgr: V. Cabrera. Dir. Tec: R. V. Tedeschi. V. by letter.
39) Ca. Giménez 638, Mercedes.
40) 18 de Julio 1333, Montevideo.
41) Nueva Helvecia, Colonia. Te: 59. L.P: M. A. Ravazzani.
42) Ituzaingo 660, Melo. Te: 499. L.P: E. O. Coronel.
43) Paysandú 1186, Montevideo. Te: 84848. L.P: A. Rupenian
44) Av. Treinta y Tres 3223, Fray Bentos. Te: 153. L.P: Dir. Gen: O. R. Donato B. Mgr: A. Gandulfo L. Dir. Tec: R. Nuñez B. V. by letter. Rec. acc.
45) Itauzaingo 246, Tacuarembó. L.P: Dir: A. P. Irazú.
47) 19 de Abril 494, Carmezo. Te: 520. L.P: U. Lobecio.
48) Isla de Gorriti 819, Maldonado. Te: 2817. L.P: E. Lamaison.
49) Ca. Larrañaga 84, Salto.
50) Trinidad. L.P: H. Pesquera.
51) Av. Centenario, Vichadero, Rivera. L.P: J. Godino.
52) Rincón 1120, Fray Bentos. Te: 5. L.P: M. A. Racioppi.
53) Bella Union, Artiga. Te: 58. L.P: P. A. Florinez & S. Maciera.
54) Ci. Canelones. Te: 216. L.P: Dir: W. Espiga. Mgr: C. Rossi. Dir. Tec: R. Espiga. D.Prgr: N: every h on the h. V. by letter. Rp. Rec. acc.
55) Domingo Perez 491, Minas. Te: 1092. L.P: L. Svara & C. R. Falco.
56) Monseñor Vera 1132, Rivera. L.P: D. A. L. Pedezert.
57) Av. Gral Flores 468, Colonia. L.P: B. Airaido.
58) Florida 568, Mercedes. Te: 998. B.P: M. M. Racioppi.
59) Sarandi 774, San Carlos, Maldonado. L.P: E. Lamaison.
60) Rio Branco, Cerro Largo. L.P: R. D. Lucas.

VENEZUELA

L.T: GMT — 4 h — Pr.L: Spanish — E.C: a/c 50 + 60 60 (variable).

MINISTERIO DE COMUNICACIONES

ADDR: Dirección de Telecomunicaciones, Division de Radiodifusion, Caracas.

CAMARA VENEZOLANA INDUSTRIA RADIO Y TELEVISION

ADDR: Apt. 3955, Caracas. Cable: Camradio. Te: 42505.

STATIONS: All st's comm, exc. 8) (Gov.) and 108) (Educational).

Medium Waves: Call YV--. ° = shortwave.

	Call	kHz	kW	Name, location & h of tr.
1)	KE	°550	10	R. Cultura, Caracas: 10.00-04.00
2)	LX	560	50	R. La Villa, Villa de Cura
3)	MJ	°580	10	La Voz de la Fé, Maracaibo: 09.30-12.00, 20.00-04.00
4)	KL	°590	20	R. Continente, Caracas: 09.30-03.00
5)	QB	°600	10	R. Sucre, Cumaná: 10.00-03.00
6)	NO	610	10	R. Libertad, Cabimas
7)	SE	620	10	R. Cristal, Barquisimeto
8)	KA	°630	10	R. Nacional, Caracas: 10.00-04.00
8)	SL	630	10	R. Nacional, San Cristóbal
9)	QO	°640	10	Ondas Porteñas, Puerto La Cruz: 10.00-03.00.
10)	LH	°650	50	R. Girardot, Maracay: 10.00-22.00
11)	NA	660	10	Ondas de los Médanos, Coro
12)	LL	°670	50	R. Rumbos, Caracas: 09.30-04.00
13)	QF	°680	10	R. Bolivar, Ciudad Bolivar: 10.00-03.00
14)	MR	°690	50	R. Barquisimeto, Barquisimeto: 10.00-04.00
15)	MH	°700	10	R. Popular, Maracaibo: 10.00-03.00
16)	KY	°710	5	La Voz de la Patria, Caracas: 10.00-03.00
17)	QR	720	10	R. Cumaná, Cumaná: 09.00-04.00
14)	MT	°730	10	R. Universo, Barquisimeto: 10.00-04.00
18)	NC	°740	10	R. Mundo, Maracaibo: 10.00-04.00
19)	KS	°750	10	R. Caracas, Caracas: 10.00-05.00
20)	QX	°760	10	R. Puerto La Cruz, Puerto La Cruz: 10.00-04.00
8)	KK	770	50	R. Nacional, Valencia: 10.00-04.00
21)	OD	°780	10	Ecos del Torbes, San Cristóbal: 24 h
22)	KC	°790	5	R. Dif. Venezuela, Caracas: 09.30-04.00
23)	LP	820	10	R. 810, Valencia

Venezuela

Call	kHz	kW	Name, location & h. of tr.
24) SH	820	10	R. Guyana, Upata
25) LT	°830	10	R. Miranda, Los Teques: 10.00-04.00
14) MY	°840	10	R. Juventud, Barquisimeto: 10.00-04.00
26) LD	°850	10	R. Valencia: 10.00-03.00
27) OL	°860	10	R. Junin, San Cristóbal: 10.00-04.00
28) KU	°870	5	R. Libertador, Caracas
14) MP	°880	10	R. Lara, Barquisimeto: 09.58-04.00
29) LW	890	10	R. América, Valencia
30) MD	°900	10	R. Mara, Maracaibo: 10.00-02.30
31) RQ	910	10	R. Aeropuerto, Maiquetia
32) QX	°920	10	R. Nueva Esparta, Porlamar: 10.00-04.00
33) LJ	°930	10	R. Maracay, Maracay: 11.00-03.00
34) NN	940	10	R. Punto Fijo, Punto Fijo
35) KG	°950	5	Ondas Populares, Caracas: 10.00-04.00
36) RB	°960	10	R. Monagas, Maturin: 10.00-04.00
37) SS	°960	20	R. San Sebastian, San Cristóbal: 10.00-04.00
38) LR	°970	10	R. Central, Maracay: 10.00-04.00
39) ND	980	10	R. Servicio, Maracaibo
40) MQ	°980	10	La Voz del Tigre, El Tigre: 11.00-03.00
41) RT	°990	10	R. Tropical, Caracas: 10.00-04.00
42) OB	°1000	10	La Voz del Táchira, San Cristóbal: 10.00-04.00
43) NM	1000	10	R. Mil, Morón
44) PC	1010	10	R. Aragua, Maracay
45) SF	1020	10	R. Caripito, Caripito
46) MX	1020	10	R. Calendario, Maracaibo
47) RS	1020	10	R. Margarita, La Asunción
48) TD	°1030	1	R. Valles del Tuy, Ocumare del Tuy
49) QY	1030	10	R. Guanare, Guanare
50) ON	1040	10	R. Los Andes, Mérida: 10.30-02.30
51) LB	°1040	10	La Voz de Carabobo, Valencia: 10.00-03.00
8) KZ	1050	10	R. Nacional, Caracas: 10.00-04.00
52) NU	1050	1	R. Caroni, San Félix
53) LN	°1060	1	R. Guarico, San Juan de los Morros
54) OE	1060	10	R. San Cristóbal, San Cristóbal
55) KW	°1070	1	Emis. Vargas, La Guaira: 10.00-03.00
56) PF	1070	1	R. Betijoque, Betijoque
57) OV	1080	1	R. Perijá, Machiques
58) QJ	°1080	10	R. Barcelona, Barcelona: 10.00-04.00
59) PB	°1090	10	R. Yaracuy, San Felipe: 10.00-04.00
60) OP	°1100	10	R. Occidente, Tovar
61) QT	°1110	10	R. Carúpano, Carúpano: 09.00-03.00
62) MF	1120	10	Ondas del Lago, Maracaibo
63) PZ	1120	1	R. Zaraza, Zaraza
64) RU	°1130	1	R. Litoral, Naiguatá: 11.00-02.00
65) PY	1130	1	R. Amazonas, Puerto Ayacucho
66) MU	°1140	10	R. Carorá, Carorá: 11.00-02.00
8) SM	1140	1	R. Nacional, Mérida
67) MV	1150	1	Ondas del Caribe, Punto Fijo
68) QD	1150	10	Ecos del Orinoco, Ciudad Bolivar
69) RR	1160	10	R. Industrial, Guarenas
70) SD	1160	10	R. Turismo, Valera
71) QV	1170	10	R. Acarigua, Acarigua
72) OR	°1180	10	R. Maturin, Maturin: 10.00-04.00
73) MB	1180	10	La Voz del Zulia, Maracaibo
74) RE	1190	10	R. Barinas, Barinas
75) OZ	°1200	10	R. Tiempo, Caracas: 10.00-04.00
76) NH	1200	1	Ondas del Escalante, Sta. Barbara del Zulia
77) MN	°1210	1	R. Coro, Coro: 10.00-03.00
78) QZ	1210	10	La Voz de Anaco, Anaco
79) RD	°1220	10	La Voz de Apure, San Fernando de Apure: 11.00-02.00
80) NT	1230	10	R. Barlavento, Caucagua
81) OH	°1230	1	R. Valera, Valera: 10.00-04.00
82) LQ	1240	1	La Voz de la Victoria, La Victoria
83) QM	1250	10	R. Puerto Ordaz, Puerto Ordaz
84) ML	°1250	1	R. Cabimas, Cabimas: 10.00-03.00
85) RY	°1260	1	R. Horizonte, Nirgua: 10.00-04.00
86) OU	°1270	1	Ondas Panamericanas, El Vigia: 10.00-04.00
87) TR	1270	1	R. Tucupita, Tucupita
8) SQ	1280	10	R. Nacional, San Fernando de Apure
88) NB	1280	1	La Voz de la Sierra, Churuguara
89) LF	°1290	1	R. Puerto Cabello, Puerto Cabello: 10.00-03.00
90) KH	1300	10	R. Crono Radar, Petare
91) NS	1300	1	R. Reloj, Maracaibo
92) PG	1310	1	R. Tinaquillo, Tinaquillo
93) SG	1320	5	R. Colonial, El Tocuvo
94) OY	°1330	1	R. Los Llanos, Calabozo: 10.00-04.00
95) QU	1340	10	R. San Carlos, San Carlos: 10.00-03.00
96) NG	1360	1	R. Lagunillas, Lagunillas
97) LO	1370	1	R. Dif. la Pascua, Valle de la Pascua
98) OW	°1380	1	R. Boconó, Boconó: 12.00-04.00
99) NY	1410	1	R. Dif. Oriental, Guiria
100) ST	1410	5	R. Turén, Turén
101) OF	°1420	1	R. Trujillo, Trujillo: 12.30-02.00
102) NJ	1430	1	R. Exito, Bachaquero
103) FR	1440	1	R. Orituco, Altagracia de Orituco
104) OO	°1440	10	R. Frontera, San Antonio: 10.00-04.00
105) TY	°1440	1	R. Sucesos, Tariba: 10.00-04.00
106) OJ	°1450	1	R. Universidad, Mérida: 11.00-04.00
107) TL	°1490	1	R. Mérida, Mérida: 10.00-04.00

Short Waves: Call YV--. * = inactive.

Call	kHz	m	kW	Name and h of tr.
32) PL	2340	128.4	1	R. Nueva Esparta, Porlamar: 10.00-04.00
53) PH	2350	127.6	1	R. Guarico, San Juan de los Morros
61) QG	2360	127.1	0.5	R. Carúpano: 09.00-03.00
20) QP	*2370	126.1	1	R. Puerto La Cruz
108) PM	2430	123.5	1	Escuela Radiofonicas, San Fernando: 22.00-02.00
10) LG	2440	122.9	1	R. Girardot, Maracay: 10.00-02.00
94) OX	2450	122.5	1	R. Los Llanos, Calabozo: 10.00-04.00
75) PD	2480	120.9	1	R. Tiempo, Caracas: 10.00-04.00
64) RV	3205	93.60	1	R. Litoral, Naiguatá: 21.00-02.00
86) OE	3215	93.30	1	Ondas Panamericanas, El Vigia: 10.00-04.00
55) KV	3225	92.74	1	Emisora Vargas, La Guaira: 10.00-03.00
28) KT	3245	92.45	1	R. Libertador, Caracas
40) QL	3255	92.15	1	La Voz del Tigre: 11.00-03.00
85) OC	3265	91.87	1	R. Nirgua: 10.00-04.00
30) MC	3275	91.60	1	R. Mara, Maracaibo: 10.00-02.30
89) LE	*3285	91.32	1	R. Puerto Cabello
101) OG	3295	91.10	1	R. Trujillo: 10.30-02.00
16) KX	3305	90.77	1	La Voz de la Patria, Caracas: 10.00-03.00
33) LI	3315	90.50	1	R. Maracay: 11.00-03.00
36) RA	3325	90.22	5	R. Monagas, Maturin: 10.00-04.00
60) PM	3325	90.22	1	R. Occidente, Tovar
38) PE	3345	89.68	1	R. Central, Maracay: 10.00-04.00
26) LC	3355	89.41	1	R. Valencia: 10.00-03.00
60) PM	3365	89.15	1	R. Tovar: 09.55-02.00
3) MI	3375	88.89	1	La Voz de la Fé, Maracaibo: 09.30-12.00, 20.00-04.00
58) QI	3385	88.63	10	R. Barcelona: 21.00-04.00
106) OK	3395	88.37	1	R. Universidad, Mérida: 11.00-04.00
104) PP	4760	63.03	2	R. Frontera, San Antonio: 10.00-04.00
13) NW	4770	62.89	1	R. Bolivar, Ci. Bolivar: 10.00-03.00
51) LA	4780	62.76	1	La Voz de Carabobo, Valencia: 10.00-03.00
9) QN	4790	62.63	1	Ondas Porteñas, Pto. La Cruz: 10.00-03.00
14) MO	4800	62.50	10	R. Lara, Barquisimeto: 09.58-04.00
15) MG	4810	62.37	2	R. Popular, Maracaibo: 10.00-03.00
79) RC	4820	62.24	1	LaVoz de Apure: 11.00-02.00
42) OA	4830	62.11	1	La Voz del Táchira, San Cristóbal: 10.00-04.00
81) OI	4840	61.98	1	R. Valera: 10.00-04.00
35) KF	4850	61.86	1	Ondas Populares, Caracas: 10.00-04.00
18) QE	4860	61.73	1	R. Mundo, Maracaibo: 10.00-04.00
41) KP	4870	61.60	5	R. Tropical, Caracas: 10.00-04.00
14) MS	4880	61.48	10	R. Universo, Barquisimeto: 10.00-04.00
22) KB	4890	61.35	5	R. Dif. Venezuela, Caracas: 10.00-04.00

Call	kHz	m	kW	Name, location & h. of tr.
14) NK	4900	61.22	10	R. Juventud, Barquisimeto: 10.00-04.00
108) PN	4910	61.10	10	Esc. Radiofonicas, San Fernando de Apure
19) KR	4920	60.99	7.5	R. Caracas: 10.00-05.00
27) OT	4930	60.85	1	R. Junin, San Cristóbal: 10.00-04.00
59) PA	4940	60.73	10	R. Yaracuy, San Felipe: 10.00-04.00
77) NM	4950	60.60	1	R. Coro: 10.00-03.00
5) AQ	4960	60.48	1	R. Sucre, Cumaná: 10.00-03.00
12) LK	4970	60.36	10	R. Rumbos, Caracas: 09.30-04.00
21) OC	4980	60.25	10	Ecos del Torbes, San Cristóbal: 24 h
14) MQ	4990	60.12	10	R. Barquisimeto: 10.00-04.00
98) RW	5010	59.88	1	R. Boconó, Boconó: 12.00-04.00
8) MK	5020	59.76	10	R. Nacional, Caracas: 10.00-04.00
66) NI	5020	59.76	1	R. Carorá: 11.00-02.00
4) MK	5030	59.54	7.5	R. Continente, Caracas: 09.30-03.00
72) QH	5040	59.55	1	R. Maturin: 10.00-04.00
1) KD	5050	59.41	2	R. Cultura, Caracas: 10.00-04.00
25) NL	6000	50.00	1	R. Miranda, Los Teques: 10.00-04.00
37) SR	6070	49.42	5	R. San Sebastian, San Cristóbal: 10.00-04.00
84) NK	6110	49.10	1	R. Cabimas: 10.00-03.00
48) TD	6129	48.95	1	R. Valles del Tuy
8) KO	6170	48.62	10	R. Nacional, Caracas: 10.00-04.00
14) XJ	9510	31.55	10	R. Barquisimeto: 12.00-03.00
MZ	9530	31.48	10	Various tr's, Maracaibo: 12.00-03.00
OM	9570	31.55	10	Various tr's, S. Cristóbal: 12.00-03.00
8) SC	9640	31.12	10	R. Nacional, Caracas: 22.00-04.00
105) TH	9700	30.93	1	R. Sucesos, Tariba: 10.00-22.00
107) TR	9720	30.86	1	R. Mérida: 10.00-22.00
60) OS	9750	30.57	1	R. Tovar, Tovar: 10.00-04.00
8) LS	*11725	25.58	50	R. Nacional, Caracas
8) RN	*11750	25.53	10	R. Nacional, Maracaibo
8)	*11770	25.49	10	R. Nacional, Pto. La Cruz
36)	11770	25.49		R. Monagas, Maturin: 13.00-21.00
8) KI	*11970	25.06	50	R. Nacional, Campo Carabobo
8) RO	*15390	19.49	10	R. Nacional, San Cristóbal
8) KN	*15400	19.48	50	R. Nacional, Campo Carabobo
8) RP	*17840	16.82	10	R. Nacional, Ci. Bolivar

State Abbreviations: Anz = Anzoategui; Apu = Apure; Ara = Aracua; Bar = Bariños; Bol = Bolivar; Car = Carabobo; Coj = Cojedes; Fal = Falcón; Gua = Guarico; Lar = Lara; Mer = Mérida; Mir = Miranda; Mon = Monagas; Nes = Nueva Esparta; Por = Portuguesa; Suc = Sucre; Tac = Tachira; Tru = Trujillo; Zul = Zulia; Yar = Yaracuy.
Territories: Ama = Amazonas; DAm = Delta Amaruco; DF = Dependencias Federales.

Addresses and other information:
1) Apt. 1931, Caracas, DF. Te: 421161. L.P: Dir. Gen: A. J. Isturiz. Mgr: R. Gonzalez. Dir. Tec: G. Berdi. V. by QSL-card.
2) Villa de Cura, Aragua.
3) Apt. 459, Maracaibo, Zul. Te: 74746. L.P: Dir. Gen: O. Soto L. V. by letter. Rec. acc.
4) Apt. 866, Caracas, DF. Te: 551573. Cable: Caled. L.P: Pres: C. W. White. Dir. Tec: J. Périco. Dir. Prgr: J. Francisco Rodriguez. D.Prgr: N: 10.00, 15.00, 21.30. V. by QSL-card. Rec. acc.
5) Apt. 26, Cumaná, Suc. Te: 1301. L.P: Dir: P. J. Morales. V. by letter.
6) Apt. 99, Cabimas, Zul. L.P: Dir: G. Baptista.
7) Apt. 595, Barquisimeto, Lar. V. by letter.
8) Apt. 3979, Caracas, DF. Te: 720661. L.P: Dir. Gen: R. J. Cárdenas. Mgr: M. Valentino. Dir. Tec: S. Dominguez. D.Prgr: N: 11.00, 12.00, 16.00, 17.00, 22.30, 23.00, 03.30, 04.00. (KA = Caracas, SL = San Cristóbal, KK = Valencia, KZ = Caracas, SM = Merida, SQ = San Fernando de Apuro). V. by QSL-card. Rec. acc.
9) Apt. 4123, Puerto La Cruz, Anz. Te: 2146. Cable: Ondport. L.P: Dir. Gen: R. Bellorin M. Dir. Tec: R. Alfonzo. FM: 168.4MHz. V. by letter. Rec. acc.
10) Ca. Soublette Sur 11, Maracay, Ara. Te: 6495. V. by QSL-card.
11) Edif. Don Beto, Ca. Bolivar, Coro, Fal.
12) Apt. 2618, Caracas DF. Te: 415963. L.P: Dir. Gen: N. Colmenares. Mgr: A. Serrano. Dir Tec: A Gulbis D. Prgr: N: 10.00, 15.30, 21.30, 03.30. V. by QSL-card. Rec. acc.
13) Ca. della Costa 5, Ci. Bolivar, Bol. Te: 20320. L.P: Dir: A. J. Isturiz. Dir. Tec: J. Bisconti. D.Prgr: N: 11.15, 16.30, 02.45. V. by QSL-card. FM: 93.54MHz.
14) Apt. 567 y 576, Barquisimeto, Lar. Te: 20800. Cable: Radiobar. L.P: Dir. Gen: R. A. Segúra. Dir. Tec: L. M. Pick. D.Prgr: N: 11.00, 16.30, 22.00, 03.30. FM: 96.9MHz, 101.7MHz. V. by QSL-card. Rec. acc.
15) Apt. 347, Maracaibo, Zul. Te: 72211. Cable: Radiopopular. L.P: Dir: J. Higuera M. V. by QSL-card.
16) Apt. 4173, Caracas, DF. Te: 425358. L.P: Dir: G. Velos M. V. by letter.
17) Apt. 114, Cumaná, Suc. Te: 2316. L.P: Dir. Gen: R. Marin-Quijada. FM: 98.7MHz. V. by letter. Rec. acc.
18) Av. Paraiso Esq. con. Ca. 67 No. 24-88, Maracaibo, Zul. L.P: Dir: A. M. Flores V. FM: 95MHz.
19) Apt. 2058, Caracas, DF. Te: 424916. Cable: Coravén. D.Prgr: N: Every half h. V. by QSL-card.
20) Apt. 4082, Puerto La Cruz, Anz. Te: 2057. L.P: Dir. Gen: R. Fuentes & C. A. Areaza. D.Prgr: N: 11.00, 16.00, 22.00. V. by letter.
21) Apt. 152, San Cristóbal, Tac. Te: 31680. L.P: Dir: G. Gonzales L. Dir. Tec: E. Marques. D.Prgr: N: 11.00, 15.00, 21.30, 01.30. V. by letter. Rec. acc. FM: 102.5MHz.
22) Cipreses a Miracielos 1, Caracas, DF. Te: 414474. L.P: Dir: A. Raidi. V. by QSL-card.
23) Girardot y Montes de Oca, Valencia, Car.
24) Ca. Miranda 2, Upata, Bol.
25) Ca. Ayacucho, Los Teques, Mir. Te: 2488. L.P: Dir: Dr. H. Arreaza.
26) Apt. 248, Valencia, Car. Te: 4502. L.P: Dir: M. Arché G.
27) Apt. 220, San Cristóbal, Tac. Te: 11929.
28) Palma Miracielos, Edif. "Henry Clay", 2 do piso, Caracas, DF. Te: 414973.
29) Apt. 117, Valencia, Car.
30) Apt. 100, Maracaibo, Zul. L.P: Dir: L. A. Goveá.
31) Apt. 3333, Maiquetia, DF. L.P: Dir: A. Hernández. V. by letter.
32) Apt. 58, Porlamar, Nes. Te: 2270. Cable: Covder.
33) Ca. Miranda Oeste 76, Maracay, Ara. Te: 5591.
34) Apt. 26, Punto Fijo, Fal.
35) Apt. 2070, Caracas, DF. Te: 628118. V. by QSL-card.
36) Apt. 140, Maturin, Mon. L.P: Dir. Gen: I. J. Arreaza A. Dir. Tec: R. Philips. FM: 88.5MHz. V. by QSL-card.
37) P.O. Box 338, San Sebastian, Tac. Te: 26444. L.P: Dir: R. A. Carjaval R. FM: 170.8MHz. V. by letter.
38) Apt. 4545, Maracay, Ara. Te: 7296.
39) Apt. 1440, Maracaibo, Zul.
40) Apt. 430, El Tigre, Anz. Te: 1801. L.P: Dir: C. Poleo.
41) Jesuitas A. Maturin 3, Caracas, DF. Te: 818331. L.P: Dir: A. J. Istúriz. V. by QSL-card.
42) Apt. 37, San Cristóbal, Tac. Te: 11002. L.P: Dir. Gen & Dir. Tec: J. M. Dias González. V. by QSL-card.
43) Panamericana, Morón.
44) Vargas Norte 21, Edif. Tufano, 4 to piso, Anartamento 16, Maracay, Ara. L.P: Dir: J. Labrador.
45) Apt. 10167, Caripito, Mon.
46) Apt. 789, Maracaibo, Zul.
47) Apt. 145, La Asunción, Est. N. Esparta. L.P: J. L. Lopez. V. by letter.
48) Ocumare del Tuy, Mir.
49) Ca. Sur 11, Guanare, Por.
50) Apt. 47, Mérida, Mer. Te: 2368. L.P: Dir. Gen: G. Lobo L. FM: 98.7MHz. V. by letter. Rec. acc.
51) Av. 100 No. 97-100, Valencia, Car. Cable: Radiolavoz. Te: 3111. L.P: Dir: R. Martinez. V. by letter.
52) Ca. Ramirez 31, San Félix, Tac.
53) Apt. 25, S. Juan de los Morros, Gua. Te: 81. L.P: Dir. Gen: J. Ghersy. Dir. Tec: S. Dominguez C.
54) Apt. 374, San Cristóbal, Tac. Te: 14300. V. by letter.
55) Av. Soublette, La Guaira, DF. Te: 5401. L.P: Dir: P. Sosa Guzmán.
56) Ca. 15, Betijoque, Tru.
58) Apt. 27, Barcelona, Anz. Te: 5540. L.P: Dir: F. Serrano. Mgr: E. J. Sotillo. Dir. Tec: J. Rocha. N: 10.00, 15.30, 21.15, 03.30. V. by letter. Rec. acc.
59) 4a Ave. No. 123, San Felipe, Yar. Te: 1056. L.P: Dir: A. Segura. Dir. Tec: L. M. Pick. D.Prgr: N: 11.00, 16.00, 23.00. V. by QSL-card. Rec. acc.
60) Cra. 4 No. 5-48, Tovar, Mer. Te: 188255. L.P: Dir: A. Sánchez P.
61) Apt. 590, Carúpano, Suc. Te: 1450.
62) Apt. 261, Maracaibo, Zul.
63) Edif. Guarico, Zaraza, Gua.
64) Av. Playa 120, Macúto, DF. Te: 79. L.P: Dir: L. Landaeta L. Dir. Tec: R. Carvajal. V. by letter. Rec. acc.

66) Ca. Bolivar 5-74, Carora, Lar. Te: 1121. L.P: Dir: C. J. Gonzalez. D.Prgr: N: 11.00, 14.30, 16.00, 22.30. V. by letter. Rec. acc.
67) Ca. Ecuador, Punto Fijo, Fal. L.P: Dir: A. J. Isturiz. Dir. Tec: J. Roca. FM: 98.5MHz. V. by letter. Rec. acc.
68) Apt. 47, Ci. Bolivar, Bol.
70) Av. Bolivar, Valera, Tru.
71) Av. 9 Esq. Ca. 10, Acarigua, Por.
72) Plaza Bolivar, Maturin, Mon. Te: 2015. L.P: Dir: R. Sifontes.
74) Av. Sucre El terminal, Barinas, Bar.
75) Ca. Villaflor 3, Caracas, DF. Te: 722729.
76) Distrito Colón, Sta. Barbara del Zulia, Zul.
77) Apt. 7424, Coro, Fal. L.P: Dir. Gen: R. Leyba. Dir. Tec: V. J. Róca. V. by letter.
78) Ca. Cagigal 39, Anaco, Anz.
79) Apt. 14, San Fernando Apure, Apu. Te: 2628. L.P: Dir. R. Cestari. Dir. Tec: J. Marcano C. Dir.Prgr: J. Antonio C. V. by QSL-card. FM: 101.9MHz.
81) Av. 10 No. 9-31, Valera, Tru. Te: 3211. L.P: Dir. Gen: C. Julio Balza. Dir. Tec: J. Hammerlok. V. by letter. Rec. acc.
82) Plaza Rivas, La Victoria, Apu.
83) Av. las Américas, Pto. Ordaz.
84) Ca. Democracia, Cabimas, Zul. V. by letter.
85) Edif. Yaracuy, Nirgua, Yar. (YVRY=R. Horizonte).
86) Apt. 31, El Vigia, Mer. Te: 1355.
87) Av. El Cememtario 32, Tucupita, DAm.
89) Apt. 4, Pto. Cabello, Car. Te: 3388. L.P: Dir. Gen: S. Guevara V. Dir. Tec: P. J. Curvelo. D.Prgr: N: 16.00, 02.15 and every h on the h 11.30-01.00. V. by letter. Rec. acc.
90) Ca. Guauche 7, Petare, Mir.
91) Apt. 347, Maracibo, Zul.
92) Ca. Miranda 82, Tinaquillo.
93) Av. El Alvarado, El Tocuvo, Lar.
95) Edif. Gen. Manrique 3°, San Carlos, Coj. Te: 2400. L.P: Dir. Gen: P. Taffin M. Dir. Tec: G. Fernandez. FM: 103.9MHz. V. by letter. Rec. acc.
96) Edif. Terraza Zulia, Lagunillas, Zul.
97) Ca. Retumbo, Valle de la Pascua, Gua.
98) Ca. Bolivar, Boconó, Tru. Te: 1485. L.P: Dir: A. Betancourt. D.Prgr: N: 16.00, 01.00. V. by letter. Rec. acc. FM: YVOW 93.7MHz.
100) Edif. Portuguese, Turén.
101) Ca. Independencia 200, Trujillo, Tru. Te: 1052. Cable: Radiotrujillo. L.P: Dir: P. J. Torres.
103) Ca. Illustres, Altagracia de Orituco, Gua.
104) Apt. 338, San Cristóbal, Tac. Te: 1197. L.P: Dir. Gen: R. A. Carvajal M. Mgr: J. Ochoa. V. by QSL-card. Rec. acc. FM: 104.1MHz 0.75kW.
105) Cra. 4 Ent. Ca. 1 y 2, 1-35, Tariba, Tac. L.P: Dir. Gen: R. A. Carvajal R. FM: 105.1MHz 0.25kW. V. by letter. Rec. acc.
106) Apt. 74, Mérida, Mer. Te: 1090. Cable: Radiversidad. L.P: Dir: E. O. Dubuc. D.Prgr: N: 11.00, 15.30, 22.15, 01.00, 03.45. V. by letter. Rec. acc.
107) Av. Principal, Mérida, Mer. L.P: Dir. Gen: G. Arevalo P. Dir. Tec: R. A. Carvajal M. FM: 152.1MHz. V. by letter. Rec. acc.
108) Oficina de Educación de Adultos, San Fernando, Apu. L.P: Dir: L. Beltran V. Dir. Tec: Dr. F. Adam. V. by letter. Rec. acc.

INTERNATIONAL WATERS

RADIO VERONICA (Comm.)
ADDR: P.O. Box 218, Hilversum, Holland. Studio: Zeedijk 27A, Hilversum. **Te:** 02950.
STATION: M/V "Veronica" anchored 6 miles west off "S. Gravenhage" (The Hague): 1562kHz 8kW.
D.PRGR: 05.00 (Sat/Sun 06.00)-24.00 (Fri/Sat 01.00). **Spanish** 20.00-20.30, **Italian** Sat 21.00-21.30, **Greek** Sun 20.30-21.00, **Indonesian** Thurs 19.00-20.00, **Papiamento** Thurs 20.00-21.00. Other times in Dutch — **N,Wrp.** 07.00-17.00 one min. before every h — **ANN:** "Dit is R. Veronica op 192 meter" or "R. Veronica, Het station waar muziek in zit" — **V.** by QSL-card.

RADIO HAURAKI (Comm.)
ADDR: P.O. Box 1480, Auckland, New Zealand — **Station:** M/V "Tiri" anchored in the Hauraki Gulf: 1480kHz 2kW — **D.Prgr:** 17.00-13.00. **N:** On the h. **V.** by QSL-card.

VERENIGING HOSPITAAL KERKSCHIP "DE HOOP"
ADDR: Damrak 95, Amsterdam C. **Te:** 24 44 43. **L.P:** Mgr: P. Broeksma. Chief Radio Operator: H. L. J. Distel (on board).
HOSPITAL-CHURCHVESSEL "DE HOOP": Call: PHKS. 2182kHz, 2201kHz, 2316kHz (all 0.3kW).
D.PRGR: Wrp. in Dutch (audience 15.000 Dutch fishermen and coaster crews): 09.15-09.25 on 2201kHz, 09.30-09.40 on 2316kHz, 15.15-15.25 on 2201kHz; **Assembly ships Wrp:** 05.45-05.55, 11.45-11.55, 17.45-17.55 on 2201kHz. **Church Services in Dutch:** Sun 09.30-11.30, 17.45-18.30; Wed 18.30-19.00 on 2316kHz.
The Hospital-Church vessel leaves the Netherlands 12 times a year to serve the fishing-vessels, and the above mentioned prgr's will be broadcast when the ship is at sea — **V.** by QSL-card Rp. Reports appreciated.
Beside the scheduled times on which "De Hoop" is listening on the Dutch Fishery frequencies, continuously watch is kept on the international calling frequency of Radio-telephony: 2182kHz.

Foreign ships may call on the above mentioned frequency in one of the following languages: English, German, French and Dutch. Apart from medical aid, assistance can be rendered in engine trouble, defective radio, equipment and electronic navigation instruments.

RADIO NORDSEE INTERNATIONAL (Comm.)
ADDR: Adm, Techn. Management and Studio: Mebo Ltd, Telecommunication, Albiesriederstrasse 315 (or P.O. Box 113), 8047 Zürich, Switzerland. **Te:** 54 24 47. **Telex:** 55503.
STATION: Radio Ship M/S "MEBO" anchored 15 miles north of Belgium: 1605kHz 186.9m — 6210kHz 48.31m — 9940kHz 30.18m — **FM:** 102MHz.
D.PRGR'S (incl. religious prgr's) in German, English and French: 05.00-23.00 (Fri/Sat 24.00).
INT-SIG: "Man of action" — **V.** by QSL-card.

Listeners to Radio Australia in various countries sometimes send in pictures of themselves. This one came from Djakarta.

This is a first

STEREO INTERNATIONAL is the international magazine of stereo equipment.

Whether you're a beginner or a pro, Stereo International tells you everything you need to know about buying and caring for turntables and changers, loudspeakers, tuners, amplifiers, receivers and tape recorders; and where to place them for best listening pleasure. In addition, outstanding critics provide frank reviews of records and tapes to help you make the best selections for your collection.

STEREO INTERNATIONAL is the first publication of its kind. It is written in German and English for international distribution. The German edition is available at leading newsstands in Germany, Switzerland, Holland and Austria. The English edition is available at newsstands throughout Europe.

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NEWS IN ENGLISH *in the Foreign Services of shortwave stations*

1=Sun only; 2=Sat only; 3=Tues, Thurs, Sat; 4=Mon-Fri; 5=Mon only; 6=Tues-Sat; 7=Mon, Wed, Fri; 8=W only; 9=Fri only; 10=Mon, Wed, Sat; 11=Tues, Thurs, Sun; 12=Fri & Sun; 13=Mon-Thurs; 14=Wed; 15=Mon, Tues, Thurs, Fri; 16=Tues, Wed, Fri, Sat; 17=Tues & Fri only; 18=Wed-Fri only; 19=Mon/Thurs/Sat; 20=Tues/Fri/Sun; 21=exc. Fri & Sun; 22=Tues-Sun; 23=Wed-Sun.

00.00 AFRTS
BBC
Japan
Moscow
Peking
R. New York
VOA
00.02 Norway[5]
00.15 R. Australia
00.16 RSA
00.28 VOA
00.30 AFRTS
Albania
Kiev[20]
R. New Zealand
R. Pakistan
RSA
Sweden
VOA
00.35 Japan
01.00 AFRTS
AIR
Budapest
CBC
Cuba
Japan
Moscow
Peking
Prague
RBI
Rome
R. New York
RNE
VOA
01.16 RSA
01.22 DW
01.28 VOA
01.30 AFRTS
Albania
R. Australia
Bucharest
FEBC
Japan
Moscow
RSA
VOA
01.32 SBC
DW
02.00 AFRTS
BBC
BCC
Cairo
CBC[8]
HCJB[22]
Japan
Lisbon
Moscow
R. Nederland[8]
R. New York
Peking
Pyongyang
RNE
Sweden
VOA
02.02 Norway[5]
02.16 RSA
02.20 Japan
02.28 VOA
02.30 AFRTS
Albania
R. Australia
BCC
Lebanon
Moscow
RBI
RSA
02.55 FEBC[1]
BCC
05.30 AFRTS
03.00 AFRTS
BBC
Bucharest
Budapest
Japan
Lisbon
Moscow
Peking
Prague
RNE
R. New Zealand
Seoul
VOA
03.02 Argentine
03.16 RSA
03.20 BCC
03.28 VOA
03.30 AFRTS
Albania
CBC[1]
Cuba
Moscow
RBI
Sweden
03.45 R. Australia
Lisbon
RBI
03.47 DW
03.50 Rome
04.00 AFRTS
R. Australia
BBC
CBC
ETLF
FEBC
Israel
Japan
Lisbon
Moscow
Peking
Sofia
VOA
04.02 Norway[5]
04.15 RSA[8]
04.25 R. Thailand
Rome
04.28 VOA
04.30 AFRTS
Albania
Bucharest
Kiev[20]
Moscow
RSA[8]
04.32 DW
04.37 DW
04.40 R. Pakistan
04.45 R. Australia
KGEI[2]
Moscow
04.47 SBC
04.50 Cuba
05.00 AFRTS
R. Australia
BBC
Budapest
CBC
Japan
Moscow
Peking
R. Nederland[8]
RSA[8]
Seoul
VOA
05.15 BBC[8]
Brazzaville
Paris
RSA[8]
Sweden
05.28 VOA
ETLF
HCJB[23]
Kuwait
05.45 UN[6]
05.47 DW
06.00 AFRTS
R. Australia
BBC
CBC
ELWA
FEBC[1]
Japan
Moscow
Nigeria
Seoul
VOA
06.02 Argentine
DW
06.15 RBI
Brazzaville
06.28 BBC
VOA
06.30 AFRTS
Albania
BBC
Cuba
Malaysia
Moscow
R. Nederland[8]
UN[6]
06.45 Bucharest
RBI
RSA[8]
07.00 AFRTS
Albania
R. Australia
BBC
CBC
ELWA
Japan
Moscow
R. N. Zealand[4]
Nigeria
Prague
Warsaw
VOA
07.02 SBC
07.07 UN[6]
07.10 R. Athens[8]
07.15 R. Australia
CBC
07.30 AFRTS
BBC
Lisbon
New Zealand
07.45 UN[6]
Vienna[2]
08.00 AFRTS
Budapest[14]
Japan
R. Nederland[8]
R. New Zealand
Pyongyang
RSA[8]
Seoul
08.02 Norway[1]
08.15 Lisbon
08.30 AFRTS
CBC
Malaysia
R. Pakistan
Peking
08.46 RSA
08.47 SBC
09.00 AFRTS
R. Australia
BBC
FEBC
Japan
R. Pakistan
VOA
09.02 RRI
09.09 Vienna[4]
09.22 DW
09.30 AFRTS
Albania
R. Nederland[8]
Peking
Japan
09.30 VOA
10.00 AFRTS
AIR
R. Australia
Hanoi
RSA
Japan
Jordan
Moscow
R. New Zealand
UN[6]
VOA
10.02 SBC
10.15 Budapest[9]
10.20 Japan
10.30 AFRTS
BBC
Moscow
R. Thailand
VOA
10.45 Japan
R. Pakistan
10.46 RSA
10.47 DW
11.00 AFRTS
Albania
R. Australia
BBC
Brazzaville
Bucharest
Japan
Moscow
Paris
Pyongyang
Sweden
Seoul
TWR, Bonaire
Warsaw
VOA
11.02 RRI
11.10 R. Ceylon
11.15 R. Athens
RBI
RSA
11.17 DW
11.30 AFRTS
Jordan
Moscow
11.32 SBC
11.55 FEBC
12.00 AFRTS
R. Australia
Prague
Japan
Moscow
Peking
RBI
Tashkent
VOA
12.02 DW
Norway[1]
12.10 Vienna[1]
12.15 RBI
12.17 CBC
12.20 Mongolia
12.28 TWR, Bonaire
12.30 AFRTS
R. Australia
Moscow
Sweden
VOA
12.50 FEBC[8]
13.00 AFRTS
R. Australia
BBC
Bucharest
Hanoi
Japan
Peking
Warsaw
VOA
13.15 Cairo
RBI
13.17 SBC
13.30 AFRTS
AIR
ETLF
Moscow
RBI
VOA
13.35 R. Pakistan
13.45 BBC[4]
R. Athens[8]
14.00 Albania
AFRTS
R. Australia
BBC[2]
Ghana
HCJB[23]
Japan
Jordan
R. Nederland[8]
Peking
Prague[1]
Pyongyang
Sweden
Tashkent
VOA
14.02 Afghanistan
Norway[1]
14.15 Ankara
Lisbon
14.30 AFRTS
RBI
Moscow
Seoul
14.32 RRI
14.43 Ankara
14.45 BBC[2]
14.55 AIR
15.00 AFRTS
R. Australia
Bucharest
Ghana
Japan
Jordan
Moscow
Peking
Vatican R.
VOA
15.02 SBC
15.15 RBI
15.16 CBC
15.30 AFRTS
Albania
Belgrade
FEBC
Hanoi
Moscow
R. Nederland[17]
Nigeria
Prague
VOA
16.00 AFRTS
R. Australia
BBC
FEBC[1]
Ghana
Japan
Jordan
Moscow
Peking
RSA

16.00 Sweden
VOA
16.02 Norway[1]
16.17 DW
16.30 AFRTS
Albania
Japan
Nigeria
Prague
VOA
16.32 CBC
16.45 Ghana
16.46 RSA
17.00 AFRTS
R. Australia
BBC
ETLF
Japan
Jordan
Peking
R. New York
RSA
Tanzania
VOA
17.01 WINB[4]
17.02 DW
17.25 BBC
17.30 AFRTS
Albania
Cairo
R. Nederland[17]
Kuwait
Mogadiscio
Prague
RBI
R. New York
VOA
17.35 R. Athens
17.45 Japan
17.46 RSA
17.47 DW
18.00 AFRTS
AIR
R. Australia
BBC
BCC[4]
ETLF
Ghana
Japan
Moscow
R. Nederland[17]
R. New York
RSA
UN[4]
VOA
18.02 Afghanistan
Norway[1]
18.15 Ghana
Lisbon
RBI
18.17 SBC
18.25 UN[4]
18.30 Abidjan
AFRTS
Albania
BCC
Belgrade
Lebanon
Moscow
R. Nederland[8]
Nigeria
R. New York
UN[4]
VOA
Warsaw
18.32 CBC
18.35 R. Athens
18.46 RSA
19.00 AFRTS
AIR
R. Australia
BBC
Japan
Moscow
R. Pakistan
Prague
Pyongyang
R. New York
Sweden
Warsaw
VOA
19.02 DW
RRI
19.05 Sofia
19.15 Brazzaville
Paris
19.25 Nigeria
19.30 AFRTS
Albania
Baghdad
Bucharest
Budapest
ETLF
Kiev[19]
Moscow
Peking
R. New York
Sofia
Syria
VOA
Warsaw
19.32 SBC
19.35 Rome
19.45 R. Athens
20.00 AFRTS
AIR
Belgrade
R. Australia
BBC
ELWA
Ghana
Iran
Japan
Moscow
RBI
R. Nederland[8]
R. New York
VOA
20.02 Norway[1]
20.03 WINB[8]
20.05 R. Pakistan
20.10 Cuba
20.15 RBI
Israel
20.25 Rome
20.27 BBC
20.30 AFRTS
Albania
Cairo
Japan
Moscow
Peking
R. New York
VOA
Warsaw
20.45 Ghana
Lisbon
Sweden
20.50 Cuba
Israel
21.00 AFRTS
AIR
R. Australia
BBC
Bucharest
CBC[1/2]
Ghana
Japan
Moscow
R. New York
RSA
Seoul
VOA
21.02 DW
21.05 Sofia
21.30 AFRTS
Budapest
CBC[4]
Peking
R. Nederland[8]
R. New York
Sofia
VOA
21.45 R. Australia
21.46 RSA
22.00 AFRTS
AIR
Albania
Ankara
BBC
Cairo
Ghana
Japan
Mongolia
Moscow
RBI
R New York
Rome
Warsaw
VOA
22.02 Norway[1]
22.15 R. Athens
22.28 VOA
22.30 AFRTS
HCJB[23]
Moscow
R. New York
Warsaw
Vilnius[21]
22.45 R. Australia
R. New Zealand
Sweden
23.00 AFRTS
AIR
R. Australia
BBC
Hanoi
Japan
Moscow
RBI
R. New York
VOA
23.01 CBC
23.02 Argentine
23.10 Vienna
23.12 R. Athens[8]
23.28 VOA
23.30 AFRTS
R. Australia
FEBC
HCJB[23]
R. New York
RSA
R. Nederland[8]
R. New Zealand
23.32 RRI
23.45 Japan

DX-PROGRAMMES

AUSTRALIA: R. Australia. Sat 21.30; Sun 04.30, 07.30, 13.00, 15.30; Mon 02.15 — **Japanese:** "DX Times" Sun 10.45 — **R. St. 3NE:** Sun 12.35 "World at Your Fingertips" (by Bob Padula, ARDXC).
AUSTRIA: In German: Sun 19.15 (fortnightly).
BULGARIA: R. Sofia: Fri 19.30, 21.30, Sat 00.00, 04.00. **German:** 1st and 3rd Sun 20.00.
CANADA: Canadian Broadcasting Corporation: "R. Canada Shortwave Club" 07.31, 08.46, 12.33, 18.49, 21.24, 23.16. **French:** Sat 19.49; Sun 07.45, 13.20, 20.25. **German:** Sun 17.55, 18.40 (BBC relay). **Portuguese:** Sat 23.45. **Czech:** Sun (fortnightly) 15.00, 17.30. **Polish:** Sat 17.00, 21.15 (BBC relay), Sun 15.45.
CEYLON: Ceylon Broadc. Corpo: "DX-Panorama": 2nd Sat of month 11.00.
CZECHOSLOVAKIA: R. Prague: Wed 12.00, 16.30, 19.00, 22.00. To No. America: 2nd Fri (fortnightly) 01.00, 03.30, 07.00 (repeat for Far East and Australia). **German:** 1st Thurs 19.00, repeated following Thurs 08.00; For Austria: 3rd Sun 09.30, repeated following Tues 17.05.
ECUADOR. R. St. HCJB: "DX Party Line", Tues 02.30, 19.30; Wed 09.30. **Swedish:** Fri 05.30, 20.30. **German:** Sat 06.00, 20.00.
FINLAND: Finnish Broadcasting Co: Wed 18.15, Sat 23.15, (presented by Finland's DX Club).
GERMANY: "Deutsche Welle": 2nd Tues/Wed 08.15, 10.15, 14.15, 17.15, 19.15, 21.45, 00.15, 01.15, 03.15, 05.15.
Radio Berlin International: "RBI-DX Club" (fornightly): Tues 12.00, 12.15, 13.15, 13.30, 14.30, 15.15, 16.45, 17.30, 20.00, 20.15, 22.00; Wed 01.00, 02.30, 03.30, 03.45, 06.15, 06.45, 11.15 — **German:** Tues 12.45, 14.00, 15.15, Wed 00.45, 01.45, 04.15 — **Swedish:** Tues 17.00, 19.45 — **Italian:** Tues 16.30, 21.30.
Sender Freies Berlin: "Unser Kurwellenbummel", every 4th Sat 22.05-22.20 and every 4th Sun 06.45-07.00
Deutschlandfunk: "MW 1268": Norwegian: Tues 20.10. **Swedish:** Wed, Sat 20.45. **Danish:** Fri 19.45.
GT. BRITAIN: BBC "World Radio Club": Sun 08.15, Mon 14.45, Thurs 12.45, Fri 23.45.
HOLLAND: R. Nederland Wereldomroep: "DX Jukebox" Thurs 06.42, 08.12, 09.42, 14.42, 18.42, 20.12, 21.42; Fri 02.12, 05.12.
HUNGARY: R. Budapest: Tues, Sat 21.30; Wed, Sun 01.00, 03.00, Wed 08.00, Fri 10.15 — **German:** Wed (twice monthly) 13.30 and repeat following Sat 23.00; Fri (2nd and 4th) 17.00 — **Italian:** 2nd & 4th Thurs 20.15.
JAPAN: R. Japan: "DX-News": In "Listeners Corner" every 3rd Sat/Sun 08.25, 10.05, 20.55, 00.20, 02.05. Fortnightly in the weekly "Disk Jockey": Sun 10.55, 16.40, 17.55.
NETHERLANDS ANTILLES: Trans World Radio: "DX Special": Sun 03.35, Fri 12.05.
NEW ZEALAND: R. New Zealand: "Arthur Cushens DX World", 1st Wed 06.45, 10.30 and repeated following Fri 13.45 and Sat 23.15.
POLAND: Polskie Radio: Swedish: Thurs 16.00, 18.00. **Finnish:** 2nd Thurs of month 15.30, repeated following Fri 20.00.
PORTUGAL: Emissora Nacional: "DX Club": Mon/Tues 07.45, 08.30, 13.45, 18.30, 21.00, 23.00, 23.15, 02.15, 03.15, 04.00 — **German:** 1st and 3rd Fri 20.15, 23.45 — **French:** 1st and 3rd Thurs 17.30, 18.30, 22.00.
RUMANIA: R. Bucharest: Wed, Fri 19.30, 21.00; Thurs, Sat 01.30, 03.00, 04.30 — **German:** Sat 12.00.
SO. AFRICA: R. South Africa: Wed 08.25, 10.25, 16.25, 17.25, 18.25, 21.25, 23.55; Thurs 00.55, 01.55, 02.55 (times are approx) — **German:** Fri. **Dutch:** Thurs.
SWEDEN: R. Sweden: Tues 11.20, 12.50, 14.20, 16.20, 19.20, 21.05, 23.05, 23.35; Wed 00.50, 02.30, 03.50, 05.35 — **French:** Tues 09.50, 15.20, 18.20, 21.50; Wed 03.30, 06.05 — **German:** Tues 10.50, 17.50, 20.05, 23.05 — **Spanish:** Thurs 09.50, 21.50; Fri 00.20, 01.50 — **Portuguese:** Wed/Thurs 22.10, 00.40, 02.10 — **Russian:** Wed 20.35, 22.35; Thurs 08.50.
SWITZERLAND: SBC European and Overseas Service: "Swiss Shortwave Merry-Go-Round": Mon/Tues 07.50, 09.35, 10.50, 12.20, 14.05, 15.50, 19.05, 20.20, 02.20. 05.35.
U.S.A: R. New York World Wide: Sat 17.35, Sun 19.05.

WORLD TELEVISION

CHARACTERISTICS OF TELEVISION SYSTEMS

(As indicated in C.C.I.R. Report 308, Xth Plenary Assembly, Geneva, 1963)

System	Number of lines	Channel width MHz	Vision bandwidth MHz	Vision sound separation MHz	Vestigial side-band MHz	Vision modulation	Sound modulation
A	405	5	3	−3.5	0.75	Pos	AM
B	625	7	5	+5.5	0.75	Nég	FM
C	625	7	5	+5.5	0.75	Pos	AM
D	625	8	6	+6.5	0.75	Nég	FM
E	819	14	10	±11.15	2	Pos	AM
F	819	7	5	+5.5	0.75	Pos	AM
G	625	8	5	+5.5	0.75	Nég	FM
H	625	8	5	+5.5	1.25	Nég	FM
I	625	8	5.5	+6	1.25	Nég	FM
K	625	8	6	+6.5	0.75	Nég	FM
K1	625	4	6	+6.5	1.25	Nég	FM
L	625	8	6	+6.5	1.25	Pos	AM
M	525	6	4.2	+4.5	0.75	Nég	FM
N	625	6	4.2	+4.5	0.75	Nég	FM

For all stations except those working on system M, which has a field repetition frequency of 60 per second, the field repetition frequency is 50 per second.

United States of America: System M 525 lines.

ch	MHz	ch	MHz	ch	MHz
A-2	55.25/59.75	A-6	83.25/87.75	A-10	193.25/197.75
A-3	61.25/65.75	A-7	175.25/179.75	A-11	199.25/203.75
A-4	67.25/71.75	A-8	181.25/185.75	A-12	205.25/209.75
A-5	77.25/81.75	A-9	187.25/191.75	A-13	211.25/215.75

United Kingdom (UK): System A 405 lines.

ch	MHz	ch	MHz	ch	MHz
B-1	45.00/41.50	B-6	179.75/176.25	B-11	204.75/201.25
B-2	51.75/48.25	B-7	184.75/181.25	B-12	209.75/206.25
B-3	56.75/53.25	B-8	189.75/186.25	B-13	214.75/211.25
B-4	61.75/58.25	B-9	194.75/191.25	B-14	219.75/216.25
B-5	66.75/63.25	B-10	199.75/196.25		

Ireland: System I 625 lines and System A 405 lines.

ch	MHz	ch	MHz	ch	MHz
IA	45.75/51.75	ID	175.25/181.25	IG	199.25/205.25
IB	53.75/59.75	IE	183.25/189.25	IH	207.25/213.25
IC	61.75/67.75	IF	191.25/197.25	IJ	215.25/221.25

Continental Europe (excl. France, Monaco, Italy and OIRT members): System B 625 lines. †=chE-2A.

ch	MHz	ch	MHz	ch	MHz
E-2	48.25/53.75	E-5	175.25/180.75	E-9	203.25/208.75
†	49.75/55.25	E-6	182.25/187.75	E-10	210.25/215.75
E-3	55.25/60.75	E-7	189.25/194.75	E-11	217.25/222.75
E-4	62.25/67.75	E-8	196.25/201.75	E-12	224.25/229.75

France, Monaco: System E 819 lines. †=chF-8A.

ch	MHz	ch	MHz	ch	MHz
F-2	52.40/41.25	F-7	177.15/188.30	F-10	199.70/188.55
F-4	65.55/54.40	†	185.25/174.10	F-11	203.45/214.60
F-5	164.00/175.15	F-8	186.55/175.40	F-12	212.85/201.70
F-6	173.40/162.25	F-9	190.30/201.45		

French Overseas Territories: System K' 625 lines.

ch	MHz	ch	MHz	ch	MHz
K'4	175.25/181.75	K'6	191.25/197.75	K'8	207.25/213.75
K'5	183.25/189.75	K'7	199.25/205.75	K'9	215.25/221.75

Italy: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
A	53.75/59.25	D	175.25/180.75	G	201.25/206.75
B	62.25/67.75	E	183.75/189.25	H	210.25/215.75
C	82.25/87.75	F	192.25/197.75	H1	217.25/222.75

USSR and OIRT members (R) (exc. German Democratic Republic): System D 625 lines.

ch	MHz	ch	MHz	ch	MHz
R1	49.75/56.25	R5	93.25/99.75	R9	199.25/205.75
R2	59.25/65.75	R6	175.25/181.75	R10	207.25/213.75
R3	77.25/83.75	R7	183.25/189.75	R11	215.25/221.75
R4	85.25/91.75	R8	191.25/197.75	R12	223.25/229.75

Morocco: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
M4	163.25/168.75	M7	187.25/192.75	M9-	203.25/208.75
M5	171.25/176.75	M8	195.25/200.75	M10	211.25/216.75
M6	179.25/184.25				

Australia: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
0	46.25/51.75	5	102.25/107.75	8	189.25/194.75
1	57.25/62.75	5A	138.25/143.75	9	196.25/201.75
2	64.25/69.75	6	175.25/180.75	10	209.25/214.75
3	86.25/91.75	7	182.25/187.75	11	216.25/221.75
4	95.25/100.75				

New Zealand (NZ): System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
1	45.25/50.75	4	175.25/180.75	7	196.25/201.75
2	55.25/60.75	5	182.25/187.75	8	203.25/208.75
3	62.25/67.75	6	189.25/194.75	9	210.25/215.75

Japan: System M 525 lines.

ch	MHz	ch	MHz	ch	MHz
J-1	91.25/95.75	J-5	177.25/181.75	J-9	199.25/203.75
J-2	97.25/101.75	J-6	183.25/187.75	J-10	205.25/209.75
J-3	103.25/107.75	J-7	189.25/193.75	J-11	211.25/215.75
J-4	171.25/175.75	J-8	193.25/197.75	J-12	217.25/221.75

Television on VHF/UHF (Band IV/V) Europe & Africa. VHF/UHF television systems for Band IV/V adopted by the European Broadcasting Conference Stockholm 1961 and by the African Broadcasting Conference, Geneva 1963 are 625-lines systems only. These can be grouped into 5 categories, here called Standards G to L:

Standard	Video Band-width (MHz)	Picture/ Sound Separation (MHz)	Vestigial Sideband (MHz)	Picture modulation	Sound modulation	Frequency of chromi-nance subcarrier (MHz)	Power ratio picture/ sound
G	5	5.5	0.75	Neg	FM	4.43	5:1
H	5	5.5	1.25	Neg	FM	4.43	5:1
I	5.5	6	1.25	Neg	FM	4.43	5:1
K	6	6.5	0.75	Neg	FM	4.43	5:1
L	6	6.5	1.25	Pos	AM	4.43	8:1

ch	Vision Mc	ch	Vision Mc	ch	Vision Mc	ch	Vision Mc
21	471.25	34	575.25	46	671.25	58	767.25
22	479.25	35	583.25	47	679.25	59	775.25
23	487.25	36	591.25	48	687.25	60	783.25
24	495.25	37	599.25	49	695.25	61	791.25
25	503.25	38	607.25	50	703.25	62	799.25
26	511.25	39	615.25	51	711.25	63	807.25
27	519.25	40	623.25	52	719.25	64	815.25
28	527.25	41	631.25	53	727.25	65	823.25
29	535.25	42	639.25	54	735.25	66	831.25
30	543.25	43	647.25	55	743.25	67	839.25
31	551.25	44	655.25	56	751.25	68	847.25
32	559.25	45	663.25	57	759.25	69	855.25
33	567.25						

The sound carrier frequency for each channel can be determined by adding the appropriate figure to the vision carrier frequency given above (5.5Mc for systems G, H; 6Mc for system I and 6.5Mc for systems K, L). In We. Germany ch38 is reserved for aero-navigation.

UHF Channels: USA.

ch	MHz	ch	MHz	ch	MHz
A-14	471.25/475.75	A-38	615.25/619.75	A-62	759.25/763.75
A-15	477.25/481.75	A-39	621.25/625.75	A-63	765.25/769.75
A-16	483.25/487.75	A-40	627.25/631.75	A-64	771.25/775.75
A-17	489.25/493.75	A-41	633.25/637.75	A-65	777.25/781.75
A-18	495.25/499.75	A-42	639.25/643.75	A-66	783.25/787.75
A-19	501.25/505.75	A-43	645.25/649.75	A-67	789.25/793.75
A-20	507.25/511.75	A-44	651.25/655.75	A-68	795.25/799.75
A-21	513.25/517.75	A-45	657.25/661.75	A-69	801.25/805.75
A-22	519.25/523.75	A-46	663.25/667.75	A-70	807.25/811.75
A-23	525.25/529.75	A-47	669.25/673.75	A-71	813.25/817.75
A-24	531.25/535.75	A-48	675.25/679.75	A-72	819.25/823.75
A-25	537.25/541.75	A-49	681.25/685.75	A-73	825.25/829.75
A-26	543.25/547.75	A-50	687.25/691.75	A-74	831.25/835.75
A-27	549.25/553.75	A-51	693.25/697.75	A-75	837.25/841.75
A-28	555.25/559.75	A-52	699.25/703.75	A-76	843.25/847.75
A-29	561.25/565.75	A-53	705.25/709.75	A-77	849.25/853.75
A-30	567.25/571.75	A-54	711.25/715.75	A-78	855.25/859.75
A-31	573.25/577.75	A-55	717.25/721.75	A-79	861.25/865.75
A-32	579.25/583.75	A-56	723.25/727.75	A-80	867.25/871.75
A-33	585.25/589.75	A-57	729.25/733.75	A-81	873.25/877.75
A-34	591.25/595.75	A-58	735.25/739.75	A-82	879.25/883.75
A-35	597.25/601.75	A-59	741.25/745.75	A-83	885.25/889.75
A-36	603.25/607.75	A-60	747.25/751.75		
A-37	609.25/613.75	A-61	753.25/757.75		

UHF Channels: Japan.

ch	MHz	ch	MHz	ch	MHz
45	663.25/667.75	51	699.25/703.75	57	735.25/739.75
46	669.25/673.75	52	705.25/709.75	58	741.25/745.75
47	675.25/679.75	53	711.25/715.75	59	747.25/751.75
48	681.25/685.75	54	717.25/721.75	60	753.25/757.75
49	687.25/691.75	55	723.25/727.75	61	759.25/763.75
50	693.25/697.75	56	729.25/733.75	62	765.25/769.75

EUROPE

ALBANIA

RADIODIFFUSION TELEVISION ALBANAISE

Addr: Rue Ismail Quemal, Tirana. **L.P:** See radio.

Station: chR2 0.02kW — Exp. tr's three times a week at 18.00-21.00 — **TV sets:** 2100.

AUSTRIA

OSTERREICHISCHER RUNDFUNK

Addr: Studio Rosenhügel, Speisingerstr. 121-127, Wien XXIII; ORF-Zentrum Kürnigiberg, Elisabethallée, Wien XII. **Cable:** Fernsehen-Studios: Maxingstr. 13a, Wien XIII, Singrienergasse 21, Wien XII, Columbiastudio, Rothgasse 9, Wien I. **L.P: Dir.** Gen: G. Bacher. Dir. TV: Dr. H. Zilk. Dir. Tec: Dr. G. Skalar.

Stations: Pol. H.

	ch	E kW		ch	E kW
Jauerling I	2	60/12	Sonnwendstein I	10	5/1
Patscherkofel I	4	60/12	Hauser Kaibling I	11	10/2
Kahlenberg I	5	60/12	Jauerling II	21	800/160
Pfänder I	5	100/20	Katrin II	22	20/4
Gschwandkopf I	6	1/0.2	Patscherkofel II	23	800/160
Lichtenberg I	6	100/20	Schöckl II	23	800/160
Rauchkofel I	7	1/0.2	Kahlenberg II	24	400/80
Schöckl I	7	100/20	Koralpe II	28	20/4
Wachberg I	7	5/1	Gaisberg II	32	800/160
Gaisberg I	8	100/20	Kahlenberg III	34	40/8
Dünserberg I	9	3/0.6	Lichtenberg II	43	800/160
Mugel I	9	20/4	Wachberg II	58	100/20
Pyramidenkogel I	10	30/6			

+128 low power freq. changers.

D.Prgr: W 17.30-23.00 (Sun/Wed/Sat 16.00-24.00), Wed and Fri 10.00-12.00 (for shift workers); Wed, Fri 09.00-10.00 and Thurs 10.00-11.30 for schools. **Fi:** By license payments and adv.

TV sets: 1.125.500 — **ALF:** Ö. Sch. 600.

BELGIUM

RADIODIFFUSION-TELEVISION BELGE (RTB) — BELGISCHE RADIO EN TELEVISIE (BRT) (Gov.)

Addr: RTB or BRT, Place Eugène Flagey 18, Brussels 5. **Te:** French and Dutch 496050. **Cable:** RTB or BRT-TV.

L.P: Dir. French Prgrs: L. P. Kammans. Dir. Dutch Prgrs: B. Janssens.

French Prgr: Def. 625.

	ch	kW	
Ougrée	E3	100/25	H
Wavre	E8	100/25	H
Anlier	E11	10/2.5	H
Rivière	E52	200/40	H
Froidmont	E7	20/4	V

+8 satellites.

Dutch Prgr: Def. 625.

	ch	kW	
Aalter	E2	100/25	H
Wavre	E10	100/25	H
Genk	E44	200/40	H
Oostvleteren	E49	20/4	V

+2 satellites.

D.Prgr: French: W 17.30-22.00, Sun 14.00-17.45, 19.30-22.30. **School Prgr:** Mon, Tues, Thurs, Fri 13.15-14.00.

Dutch: 18.00-21.45 (or 22.00). **School Prgr:** Mon, Tues, Thurs 13.05-14.00 — **Fi:** by state grant in aids.

TV sets: 1.920.846 — **ALF:** Bfrs. 840,-.

BULGARIA

BULGARIAN TELEVISION (Gov.)

Addr: Todor Strashimirov 2, Sofia. **Te:** 4-63-21. **Cable:** TV-Bulgar. **Telex:** 581. **L.P: Dir:** V. Baev.

Stations: Sofia chR7 10/5kW. **D.Prgr:** W exc. Tues 16.00-20.30. Sun 15.00-20.30 — **TV sets:** 621.250.

CYPRUS

CYPRUS BROADCASTING CORPORATION

Addr: P.O. Box 1824, Nicosia. **Cable:** Broadcasts. **Te:** 22231. **Telex:** 2333. **L.P:** Head of TV Prgr: G. Mitsides. For other personnel: See radio section.

Stations: Mt. Olympus chE6 40/8kW V, Mt. Sina Oros chE8 40/8kW V. **D.Prgr's:** 16.00-20.00.

TV sets: 38.000 — **ALF:** £3/0/0.

CZECHOSLOVAKIA

CESKOSLOVENSKA TELEVIZE

Addr: Ceskoslovenská televize, nám M. Gorkého 29, Praha 1. **Te:** 2136. **Cable:** Televize. **Telex:** 400.

Stations: Ch. OIRT.

	ch	kW(ERP)		ch	kW(ERP)
Stredni/Cechy	1	30/6 H	Banska Bystrica	7	100/40 H
Severni Morawa	1	10/2 H	Brno	9	100/40 H
C. Budejovice	2	100/40 H	Jizni Morava	9	10/2 H
Jizni Cechy	2	10/2 H	Plzen	10	100/40 H
Zapadni Slovensko	2	10/2 H	Zapadni Cechy	10	10/2 H
Pardubice	6	100/30 H	Usti n. Labem	12	100/40 V
Vychodni Cechy	6	10/2 H	Severni Cechy	12	8/1.6 V
Vychodni Slovensko	6	10/2 V			

+137 low power satellites.

D.Prgr: Sun 08.00-10.45, 13.00-21.15; Mon 16.00-21.25; Tues 08.00-10.20. 15.10-21.15; Wed 08.00-11.10, 16.10-21.25; Thurs 08.00-11.00, 15.45-21.10; Fri 07.30-11.30, 15.35-22.40; Sat 08.00-11.00; 13.00-22.30.

Ad. Approx. 10 mins daily — **TV sets:** 2.865.000. **ALF:** Czech Crowns: 180.00.

DENMARK

RADIO DENMARK (Gov.)

Addr: Danmarks Radio, TV, Rosenørnsallé 22, Copenhagen 1970 V. **Te:** (01)350647. **Cable:** Danradio. **Telex:** 2695 — **L.P:** Dir. Gen: Hans Sølvhøj. Dep. Dir. Gen: Erik Carlsen. Dir. Adm: Ejnar Jensen. Dir. Prgr: Laur. Bindsløv. Dir. Tec. (radio and TV): Peter Hansen. Head of Music: M. Andersen. Head Entertainment: Niels-Jørgen Kaiser. Head, Actualities Dept: Hans Jørgen Jensen. Head Cult. Dep: Werner Svendsen. Head Drama: Felix Nørgaard. Head children and youth prgr's: Mogens Vemmer. Head Educ. broadcasts: Valdemar Christensen.

Stations: chE, pol H exc those marked *) V; †) Experimental.

	ch	kW/W		ch	kW/W
Funen	3	10/1	Århus	8	10/1
Copenhagen	4	10/1	Frederikshavn*	8	50/5W
Ålborg	5	50/5	Kolding	9	100/10W
Bornholm	5	10/1	Kollund*	9	100/10W
Vejle*	5	50/5W	Esbjerg*	9	50/5W
Horsens*	6	50/5W	We. Jutland	10	60/10
Randers*	6	50/5W	Skagen*	11	50/5W
Silkeborg*	6	50/5W	Grenå*	11	50/5W
So. Seeland	6	60/6	Hirtshals*	11	50/5W
Hobro*	7	5/1W	København†	31	125/12.5
So. Jutland	7	60/6			

D.Prgr: 18.30-21.30; Youth, Educational and children's prgr's: 08.15-08.40 (Mon-Tues-Fri), 09.15-09.40 (Mon-Thurs), 12.15-12.40 (Wed-Thurs-Fri), 14.15-15.00 (Thurs-Fri), 16.15-17.00 (Tues-Sat). **Fi:** By license payments. **TV sets:** 1.227.900 — **ALF:** Kr. 256,50.

FINLAND

OY YLEISRADIO AB (Gov.)

Addr: Prgr. I: Pasila, Helsinki 101. **Te:** 41881. **Cable:** Yletv. **Telex:** 12849. Prgr. II: Tampere, Hämeenkatu 22C. **Te:** 30330. **Telex:** 922-176. **L.P:** Dir. TV I: P. Paloheimo (from Jan. 1st. 1970). Dir. TV II: H. Leminen. For other leaders: See radio.

Stations:

Prgr. I	ch	kW	Po	Prgr. I	ch	kW	Po
Taivalkoski	2	15	V	Turku	7	60	H
Tervola	3	20	H	Koli	8	20	H
Kajaani	4	15	H	Tampere	8	80	H
Ruka	4	0.1	V	Kerimäki	9	10	H
Lapua	5	80	H	Lahti	9	80	H
Pyhätunturi	5	60	H	Rovaniemi	9	0.7	V
Sippola	5	20	H	Ylivieska	9	60	H
Tammisaari	5	0.15	H	Joutseno	10	10	H
Helsinki	6	10	H	Kaunispää	10	0.5	H
Iisalmi	6	0.2	H	Pihitipudas	10	5	H
Mikkeli	6	10	H	Tammela	10	8	H
Pyhävuori	6	20	H	Eurajoki	11	20	H
Kokkola	7	0.1	H	Jyväskylä	11	10	H
Kuopio	7	45	H	Vaasa	11	0.1	H
Oulu	7	60	V	Yllästunturi	11	60	H
				Helsinki UHF	24	25	H

+22 low power repeaters.

D.Prgr: Mon-Fri 15.30-21.00, Sat 14.00-22.00, Sun 13.00-21.00.

	ch	kW	Po	Prgr. II	ch	kW	Po
Tampere	2	10	V	Turku	9	10	V
Helsinki	8	10	H	Lahti UHF	40	1	H

+1 low power repeater.

D.Prgr: 17.00-20.30 (Sat also 13.00-16.00). **FI:** By license fee and adv. — **TV sets:** 957.723 — **ALF:** Fmk 80,- (for colour sets: Fmk 180,-).

FRANCE

OFFICE DE RADIODIFFUSION-TELEVISION FRANCAISE (Etablissement Public)

Addr: 116, Avenue du Président Kennedy, Paris 16. **L.P:** See radio.

1st Prgr. (819 lines):

Principal stations: Audio powers ¼ of Vision powers indicated.

Location	chF	kW (ERP)	Pol	Location	chF	kW (ERP)	Pol
Bastia	2	3	V	Niort	7	20	V
Caen	2	20	V	Lille	8A	20	H
Limoges	2	20	H	Mezieres	8A	0.5	V
Troyes	2	20	H	Paris	8A	20	H
Ajaccio	4	0.5	H	Brest	8	10	H
Besançon	4	3	V	Marseille	8	20	H
Carcassonne	4	20	V	Mulhouse	8	20	H
Hyeres	4	0.25	V	Bayonne	9	0.5	V
Nantes	4	20	V	Bourges	9	20	H
Reims	5	10	V	Bordeaux	10	10	H
Rennes	5	20	H	Dijon	10	3	V
Strasbourg	5	3	H	Grenoble	10	0.05	H
Toulouse	5	2	H	Rouen	10	10	H
Antisanti	6	0.5	H	Tolouse	10	0.05	H
Clermont Ferrand	6	10	V	Amiens	11	20	V
Metz	6	10	H	Aurillac	11	0.5	V
Montpellier	6	0.05	H	Toulon	11	0.05	H
Saint-Raphael	6	3	V	Cherbourg	12	0.5	H
Gex	7	3	V	Le Mans	12	10	V
Le Havre	7	0.5	H	Lyon	12	20	H
Nancy	7	0.05	V	Perpignan	12	0.25	H
				Vannes	12	0.5	H

+940 low powered relay st's.

D.Prgr's: W 11.30-12.30, 17.20-22.30 (approx), Sat 14.30-22.15; Sun 07.55-22.30 (approx). **Reg. Prgr's:** 18.00-18.25 (Sat also 12.15-13.00).

Second Prgr (625 lines): Pol.=H.
Audio powers ¼ of vision powers indicated.

Station	ch	kW(ERP)	Station	ch	kW(ERP)
Ajaccio	21	10	Toulouse	39	0.45
Brest	21	50	Lyon	40	50
Gex	21	20	Besançon	41	10
Lille	21	50	Le Havre	43	10
Mulhouse	21	50	Rennes	45	50
Toulouse	21	10	Reims	46	50
Niort	22	50	Bastia	47	20
Paris	22	25	Longwy	47	2
Marseille	23	50	Toulon	48	2
Mezieres	23	20	Grenoble	50	2
Troyes	24	50	Limoges	50	50
Caen	25	50	Menton	50	2
Perpignan	25	0.45	Strasbourg	56	50
Bourges	26	50	Vannes	56	20
Chambery	26	10	Bordeaux	57	50
Le Mans	27	50	Bayonne	58	10
Chamonix	28	1	Carcassonne	58	50
Clermont-Ferrand	28	20	Lyon	58	2
St-Raphael	28	20	Nice	58	0.45
Nancy	29	20	Cherbourg	59	2
Nantes	29	50	Hyeres	59	2
St. Etienne	30	0.45	Epinal	60	2
Rouen	33	20	Antisanti	61	2
Boulogne	34	2	Dijon	62	20
Metz	34	50	Sens	63	4
			Aurillac	65	20

+157 low powered relay st's.

D.Prgr: Sun 13.30-22.30; W 18.40-22.00.

Colour transmissions (SECAM system) are aired by the tr's of the 2nd and Netw: 22 hrs weekly.

Projected: Abbeville 10kW (57h), Chartres 10kW (50h), Forbach 1kW (22h), Avignon 10kW (45h), Montpellier 50kW (50h), Sarrebourg 4kW (53h), Besançon 10kW (23h), Auxerre 10kW (31h), Gap 0.5kW (21h), Ales 0.5kW (24h), Autun 20kW (51h).

TV sets: 9.795.918 — **ALF:** Frcs. 100,-.

GERMANY

GERMAN FEDERAL REPUBLIC

ARD (Arbeitsgemeinschaft der öffentlichrechtlichen Rundfunkanstalten der Bundesrepublik Deutschland)

German Television Prgr: Direction: 8 München 23, Leopoldstrasse 10. **Te:** 38061. **Telex:** (05)22480 — **L.P:** Prgr. Dir. German Television: L. Hartmann. Deputy Dir. and Coordinator Sports: Dr. H. Arnold. Coordinator Politics: D. Gütt. Press: O. Meitzer. Intern. Prgr's Office: Dr. R. Dill. Fernsehbeirat: Chmn: H. Müller-Osterode, 3406 Bovenden/Göttingen, Erlenweg 2.
A common prgr. is being broadc. throughout Germany under the title "Deutsches Fernsehen". Each of the org's participates in the production of this prgr. In addition reg. broadc's are transmitted.
All st's broadcast **a third TV-prgr.**

Community Television Prgr: (Deutsches Fernsehen): Mon-Fri 15.35-17.00, 19.00-22.00; Sat 13.55-17.30, 19.00-23.00; Sun 10.00-22.00 (closing times are approx).

Third TV Prgr: Bayerischer Rundfunk: Mon-Sun 16.55-21.00; Hessischer Rundfunk: Mon-Fri 18.00-21.00, Sat 16.00-21.00, Sun 18.30-21.00; Norddeutscher Rundfunk/Radio Bremen/Sender Freies Berlin: Sun-Fri 18.00-21.00, Sat 15.30-21.00; Westdeutscher Rundfunk: Mon-Thurs 17.00-21.00, Fri 17.00-21.45, Sat 15.00-21.45, Sun 13.00-21.30; Saarländischer Rundfunk, Süddeutscher Rundfunk and Südwestfunk: Mon-Wed 17.30-18.30, Thurs-Sun 18.30-21.00.

TV sets: 15.542.780 — **ALF:** DM 84,00 (TV DM 60,00+ radio DM 24,00).

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR: Bayerischer Rundfunk, 8 München 2, Rundfunkplatz 1. **Studios:** 8 München-Freimann and 8043 Unterföhring. **L.P:** Intendant: Chr. Wallenreiter. Dir. TV: Dr. Cl. Münster. Dir. Stud. Prgr: Dr. H. Oeller. Dir. Adm: H. Spies. Dir. Tec: Dr. F. Daser.

Stations	chE	kW(ERP)/ Vision	Stations	chE	kW(ERP)/ Vision
Grünten	2	100H	Würzburg	10	5H
Kreuzberg	3	100V	Hohenpeissenberg	25	10H
Ochsenkopf	4	100V	Hoher Bogen	55	200H
Dillberg	6	100H	Büttelberg	55	400H
Brotjacklriegel	7	100H	Pfaffenberg	59	100H
Wendelstein	10	100H	Hühnerberg	60	400H

+50 low power relay st's.

Testtr's: 09.00-11.00, 12.00-15.50; Sat 12.00-15.50.

Third Prgr. (Pol H): W 18.00-21.30.

Stations	chE	kW(ERP) Vision	Stations	chE	kW(ERP) Vision
Deggendorf	40	430	Bayreuth	54	100
Coburg	41	250	Schnaitsee	54	500
Regensburg	42	370	Bamberg	56	90
Amberg	43	500	München	56	500
Augsburg	44	500	Hof	57	500
Würzburg	45	500	Pfarrkirchen	57	250
Grünten	46	500	Landshut	58	55
Rhön	49	470	Nürnberg	59	440
Spessart	51	220	Passau	60	40

PUB: "Pressedienst -Studienprogramm" (weekly).
Fi: By licence payments.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

Addr: 6000 Frankfurt (Main) 1, Postfach 3294, Bertramstrasse 8. **L.P:** Intendant: W. Hess. Dir. Prgr. (TV): H. O. Grünefeldt. Chief Editor News: W. Hanke. Play: Dr. H. Prescher. Prod: G. Meyer. Youth and family Prgr: F. Göhlen. Education: M. Benesch.

Stations: Biedenkopf chE2 30/2kW Hd — Hardberg chE5 5/0.6kW Hd — Meissner chE7 100/10kW H — Feldberg chE8 100/10kW H — Fulda chE47 10/1kW Hd — Rimberg chE57 400/20kW+65 low power freq. changers.

D.Prgr: 15.40-21.30 (Sat also 13.00-15.40): Sun also 10.00-15.40. Test tr's: Mon-Sat 09.00-11.00 (exc. Meissner): Mon-Fri 12.00-15.40 — **Ad:** W between 17.10-17.50, 18.10-18.50.

Third Prgr: "Hessisches Fernsehprogramm" Mon-Fri: 18.00-21.00 over the following tr's of "Deutsche Bundespost":

Location	chE	Location	chE
Rimberg	39	Idstein	40
Wiesbaden	39	Bad Orb	42
Bad Nauheim	40	Kassel	42
Bad Schwalbach	40	Hohes Lohr	45

Marconi television cameras

Marconi pioneering in camera design has resulted in the production of a range of fine cameras, which have achieved outstanding success throughout the world. More than 2000 live broadcast camera chains have been sold to 50 countries.

Mark V 4½ inch image orthicon camera Type B3100

Marconi pioneered the use of the 4½in image orthicon camera, the standard by which all other black-and-white cameras have come to be judged, and have sold nearly 1500, considerably more than any other manufacturer. The Mark V is the latest in the line of Marconi 4½ inch image orthicon cameras.
All solid state
Tilting highbrightness viewfinder
Servo or manual controlled integral zoom lens
Rigid stability

Mark VI photoconductive camera Type B3124

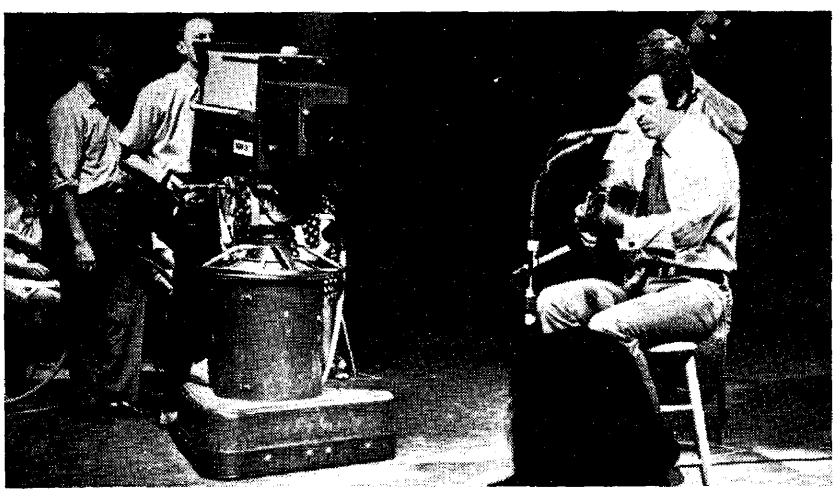
The Marconi Mark VI, designed to work with either vidicon or Plumbicon* can be used as a high-quality studio or outside broadcast camera, a manually or remotely controlled news and continuity camera, or a telecine camera.
High sensitivity
Excellent signal-to-noise ratio
All solid state
Lightweight modular construction

Mark VII 4-tube colour camera Type B3205

The Mark VII was the first successful four-Plumbicon* colour television camera in the world. It has earned a high reputation for excellent picture quality and high stability.
High stability
Outstanding sensitivity
Separate luminance
Brilliant optics
Compact and lightweight

Below: Mark VII in operation at WGBH Boston, USA

**Registered trademark Philips Gloeilampenfabrieken*



THE QUEEN'S AWARD TO INDUSTRY
1966 1967 1968 1969

Marconi Communication Systems Limited
Broadcasting Division, Chelmsford, Essex, England

A GEC-Marconi Electronics Company

LTD/B93(A)

Location	chE	Location	chE
Giessen	46	Hoher Meissner	55
Angelburg	52	Dillenburg	56
Gr. Feldberg	54	Marburg	56

NDR-TELEVISION

Addr: See radio. **L.P:** Dir. Prgr: D. Schwarzkopf. For other personnel: see radio.

STATIONS	ch	kW	Pol		ch	kW	Pol
Stenkimmen	2	100	H	Lingen	41	400	H
Flensburg	4	50	H	Dannenberg	43	250	H
Kiel	5	12	H	Bungsberg	50	260	H
Hannover	8	5	H	Osnabrück	50	250	H
Hamburg	9	100	H	Aurich	53	230	H
Heide	10	25	V	Steinkimmen	55	400	H
Harz	10	100	H				

+63 low power st's.

D.Prgr: Test-tr's: W 12.30-15.30 — **Prgrs:** W 09.00-12.00, 15.10-17.05 (Sat 13.10-17.30); D 19.00-20.00 — **Reg. Prgr:** W 17.05 (Dsy. 17.30)-18.59.

Third Prgr: 18.00-21.30. Sat. 17.00-21.30 (approx). Common prgr. of Norddeutscher Rundfunk, Radio Bremen and Sender Freies Berlin:

	ch	kW	Pol		ch	kW	Pol
Lübeck	33	240	H	Torfhaus	53	500	H
Hamburg	40	500	H	Kiel	55	200	H
Bremen	42	500	H	Osnabrück	56	138	H
Aurich	43	400	H	Flensburg	57	250	H
Eiderstedt	44	380	H	Uelzen	58	400	H
Hannover	44	500	H	Göttingen	59	250	H
Höhbeck	45	440	H	Lingen	59	400	H
Schleswig	45	100	H	Niebüll	60	150	H
Eutin	47	280	H	Verden	60	66	H
Cuxhaven	48	330	H				

+16 low power st's.

RADIO BREMEN (Anstalt des öffentlichen Rechts)

Addr: Heinrich-Hertz Str. 13, Bremen. **L.P:** Dir: H. Abich.

Stations: Bremen chE22 100/20kW, Bremerhaven chE5 0.16/0.03kW V. **D.Prgr:** D 18.00-21.30. **Reg. Prgr's:** W. 17.15 (Sat 17.30)-19.00.

Special Prgr: Mon-Fri 09.00-12.00.

Third Prgr: Bremen chE42 500/100kW H: 18.00-20.30 (approx) — **Fi:** By license payments — **Ad:** D (exc. Sun) max 20 min.

SAARLANDISCHER RUNDFUNK-FERNSEHEN

Addr: 66 Saarbrücken, Postfach 1050. **L.P:** Dir: K. Schnelting. Chief Editor: K. H. Reintgen.

Station: Göttelborner Höhe ch2 100/20kW V+16 low powar satellites. **D.Prgr:** Reg. Prgr: 17.00-18.59, Sat 17.30-18.59 — "Deutsches Fernsehen": 3% annual participation. **Fi:** By license payments and adv — **Ad:** 17.05-18.59.

SENDER FREIES BERLIN

Addr: Fernsehen, Masurenallee 8/14, 1 Berlin 19. **Te:** 3081. **Telex:** 182813. **Cable:** Sender Freies Berlin. **L.P:** See radio.

Station: Berlin chE7 100/10kW. **D.Prgr:** W 09.00-12.30, 15.30-17.05 (Sat 13.00-17.30), 19.00-23.00 (approx). Sun 09.00-09.50, 10.00-21.45.

Reg. Prgr's: Mon-Fri 15.00-15.30, 17.05-19.00; Sat 08.00-08.45, 12.00-12.30, 17.30-19.00.

Third Prgr. (NDR/RB/SFB): Station: Berlin ch39 500/50kW H: 18.00-21.00 (Sat 15.30-21.15) approx — **Fi:** By license payments.

SUDDEUTSCHER RUNDFUNK FERNSEHEN (Anstalt des öffentlichen Rechts)

Addr. and **L.P:** See radio.

Station	ch	kW(ERP)		Station	ch	kW(ERP)	
Stuttgart	11	100/20	H	Heidelberg I	7	100/20	V
Langenbrand	21	100/10	H	Aalen	8	50/4	V
Heidelberg II	50	500/100	H	Waldenburg	9	100/20	H

+39 low power freq. changers.

D.Prgr: W 16.00-17.00, 19.00-21.30 (approx.); Sat 14.00-17.30, 19.00-22.00 (approx); Sun 10.00-22.00 (approx).

Reg. Prgr's: Mon-Fri 17.00-19.00.

Ad: W 17.20 (Sat 17.30)-17.50, 18.20-19.00. **Test Prgrs:** W 09.00-11.00 and 12.00 to start of Prgr's.

SUDWESTFUNK (Anstalt des öffentlichen Rechts)

Addr: Südwestfunk Fernsehen, 7570 Baden-Baden, Hans-Bredow-Str. **Te:** 2761. **Cable:** Südwestfunk, Baden-Baden. **L.P:** See radio.

Stations: Pol: H.

	chE	kW(ERP)		chE	kW(ERP)
Baden-Baden	7	0.32	Kaisersl.	7	0.32
Brandenkopf	48	2.5	Koblenz	6	50
Donnersberg	10	100	Mainz	11	1
Eggberg	22	0.8	Marienberg	47	50
Eifel	23	20	Raichberg	4	40
Feldberg	8	100	Saarburg	31	20
Freiburg	7	0.9	Trier	5	0.6
Freiburg	58	170	Waldshut	21	1
Grünten	43	500	Wannenberg	30	5
Haardtkopf	25	200	Weinbiet	6	30
Hornisgrinde	9	100	Zweibrücken	7	0.04

+177 low power satellites. **D.Prgr:** Variable.

WDR FERNSEHEN

Addr: Wallrafplatz 5, Köln. **Te:** 2201. **Cable:** WDR Studios, 53 Bonn, Dahlmannstr. 14; 4 Düsseldorf, Achenbachstr. 5.

L.P: Dir: Vacant. Dir. Third Prgr. TV: Werner Höfer. **First TV Prgr:** Pol: H.

Stations	chE	kW(ERP)	Stations	chE	kW(ERP)
Bonn	5	0.5/0.05	Aachen-Stolb.	24	200/20
Wuppertal	6	0.6/0.06	Nordhelle	30	240/24
Langenberg	99	100/10	Münster-B	32	500/50
Köln	11	10/1	Kleve	46	100/10
Teutob.Wald	11	100/10			

+180 low power freq. changers.

D.Prgr: Testr: W 09.00-11.00, 12.00-17.00 (Sat 13.00). **Reg. Prgr:** W 17.05-19.00, Sat 13.30-13.55, 17.30-19.00. **Common Prgr:** Sun 10.00-22.00; Mon-Thurs 15.40-17.05, 19.00-21.30; Fri 19.00-22.30 (approx); Sat 13.55-17.05, 19.00-23.00 (approx).

Third Prgr: Tues-Thurs 18.00-20.15, Fri 17.30-21.45, Sat 17.00-21.40, Sun 18.00-20.45, Mon 17.30-20.40 (closing times are approx).

Stations	chE	kW(ERP)	Stations	chE	kW(ERP)
Wuppertal	42	85/7.5	Dortmund	53	470/47
Münster-Baumb	45	250/25	Düsseldorf-Witzh.	55	450/45
Bielefeld	46	450/45	Aachen	58	450/45
Bonn	49	85/8.5	Lüdenscheid	60	250/25
Monschau	50	280/28			

ZWEITES DEUTSCHES FERNSEHEN (Anstalt des öffentlichen Rechts)

(All prgrs. are broadc. simultaneously on the stations listed below and originated at the main studios at Mainz).

Addr: 65 Mainz, Postfach 4040. **Te:** 131. **Telex:** 04-187661.

L.P: Dir. Gen: Prof. Dr. K. Holzamer. Dir. Prgr: J. Viehöver. Dir. Inf: W. Dietrich. Dir. Adm: Dr. F. Huch. Dir. Tec: R. Kaiser. Dir. Foreign Relations: Hanns Kimmel. Film Buyers: K. Brüne, H. Blank. Chief of Press Dept: P. F. Weber.

STATIONS: chE. Pol: H.

	ch	kW(ERP)		ch	kW(ERP)
Eutin	21	500/50	Schnaitsee	26	500/50
Göttingen	21	500/50	Stuttgart	26	500/50
Höhbeck	21	500/50	Heidelberg	27	500/50
Marienberg	21	250/25	Hochsauer-land	27	250/25
Monschau	21	330/33	Pfarrkirchen	27	250/25
Münster	21	250/25	Uelzen	27	500/50
Regensburg	21	500/50	Boppard	28	250/25
Coburg	22	250/25	Brandenkopf	28	50/5
Donaue-schingen	22	100/10	Grünten	28	500/50
Hohes Lohr	22	100/10	Hoher Bogen	28	330/33
Hohen-peissenbg.	22	15/1.5	Langenburg	28	250/25
Kaisers-lautern	22	25/2.5	Düsseldorf	29	500/50
Wuppertal	22	100/10	Heubach	29	250/25
Augsburg	23	500/50	Rhön	29	500/50
Hof	23	300/30	Bayreuth	30	100/10
Lübeck	23	250/25	Eberbach	30	250/25
Torfhaus	23	500/50	Hamburg	30	500/50
Angelburg	24	500/50	Passau	30	50/5
Bamberg	24	100/10	Schnee-Eifel	30	250/25
Cuxhaven	24	330/33	Baden-Baden	31	330/33
Hannover	24	500/50	Eggebirge	31	250/25
Lingen	24	500/50	Eiderstedt	31	500/50
Dortmund	25	500/50	Koblenz	31	100/10
Rimberg	25	400/40	Pfaffenhofen	31	500/50
Würzburg	25	500/50	Bremen	32	500/50
Bonn	26	100/10	Hesselberg	32	250/25
Minden	26	500/50	Hoher Meissner	32	500/50
Schleswig	26	100/10	Saarbrücken	32	330/33

Station	ch	kW (ERP)	Station	ch	kW (ERP)
Ahrweiler	33	250/25	Rottweil	35	330/33
Berlin	33	500/50	Spessart	35	250/25
Bielefeld	33	500/50	Wesel	35	500/50
Deggendorf	33	500/50	Aachen	37	500/50
Freiburg	33	500/50	Amberg	37	500/50
Krehberg	33	100/10	Cloppenburg	37	500/50
Ostfriesland	33	500/50	Donnersberg	37	330/33
Ulm	33	500/50	Lüdenscheid	37	250/25
Feldberg/Ts.	34	500/50	Ravensburg	37	500/50
Niebüll	34	200/20	Trier	37	50/5
Nürnberg	34	500/50	Flensburg	39	500/50
Pforzheim	34	250/25	Hochrhein	39	300/30
Haardtkopf	35	400/40	Landshut	39	50/5
Kassel	35	200/20	Osnabrück	39	250/25
Kiel	35	250/25	Bad Reichenhall	42	500/50
München	35	500/50			

+360 lower power frenquency changers.

D.Prgr: Test tr's: Mon-Fri 08.00-08.45 (colour), 08.45-13.30, 13.30-15.30 (colour), 15.30-16.45; Sat/Sun 11.00-13.00 (colour), 13.00-prgr. begin.
Common Prgr: Mon-Fri 16.30-22.00, Sat 12.45-23.30, Sun 10.00-21.30. Sport on Sat and Sun afternoons. Closing times are approx. **Fi:** By licence payments.

ARMED FORCES TELEVISION (US MIL)

Addr: 1) Spangdahlem Air Base, Detachment 101, 7122nd Support Squadron, APO New York, N.Y. 09123; 2) Ramstein Air Base, Detachment 100, 7122nd Support Squadron, APO New York, N.Y. 09012; 3) Detachment 1, 7122nd Support Squadron, APO New York, N.Y. 09611.
Stations: 1) Spangdahlem (near Bitburg) chA22 8/1.6kW H; 2) Ramstein (near Kaiserslautern) chA26 3/0.6kW H; 3) Berlin chA25.

GERMANY
GERMAN DEMOCRATIC REPUBLIC

DEUTSCHER FERNSEHFUNK (Gov.)

Addr: Staatliches Komitee für Fernsehen beim Ministerrat der DDR, 1199 Berlin, Rudower Chaussee 3. **Te:** 63260. **Telex:** 0112885. **Cable:** Fernsehfunk.
Stations: Helpterberg chE3 6/1.2kW H, Cottbus chE4 6/1.2kW H, Berlin/Inselsberg chE5 100/20kW H, Brocken chE6 100/20kW H, Görlitz chE6 1/0.2kW H, Schöneck chE6 0.5/0.1kW V, Eisenhüttenstadt chE7 0.5/0.1kW H, Karl-Marx-Stadt chE8 100/20kW H, Marlow chE8 100/20kW H, Leipzig chE9 100/20kW V, Dresden chE10 100/20kW V, Schwerin chE11 100/20kW H, Frankfurt/Oder chE11 0.5/0.1kW H, Blessberg chE12 0.5/0.1kW H, Dequede chE21 500/100kW H, Berlin chE29 500/100kW H.
D.Prgr: Mon-Fri 08.50-13.00, 17.00-22.00; Sat 08.50-23.00; Sun 08.50-22.00. **Ad:** Three times weekly after 18.00 — **TV sets:** 4.200.000.

GIBRALTAR

GIBRALTAR TELEVISION (Comm.)

Addr: TV House, Wellington Front, Gibraltar. Studios: TV House, Queensway, Gibraltar. **Te:** 4671/2. **Cable:** Broadcasts. **L.P:** See radio. **Station:** chE6 200/400kW H.
D.Prgr: 19.30-24.00 — **TV sets:** 6.400 — **ALF:** £4-0-0.

GREAT BRITAIN

BRITISH BROADCASTING CORPORATION

Addr: Broadcasting House, London, W1A 1AA. **L.P:** Man: R. Scott. Dir. TV: H. Wheldon, O.B.E, M.C. Dir. of Prgr: D. Attenborough. Contr. BBC-1: P. L. Fox. Contr. Prgr. Sce's: I. Atkins, O.B.E. Contr. TV-Adm: S. G. Williams, O.B.E. Gen Mgr. TV Enterprises: D. G. Scuse, M.B.E. Chief Eng: S. N. Watson, O.B.E.
BBC-1 (405 lines, VHF) *) directional aerial.

Stations	ch	(ERP) kW	Pol.	Stations	ch	(ERP) kW	Pol.
Crystal Palace	1	200	V	Kirk o'Shotts	3	100	V
Ashkirk	1	18*	V	Rowbridge	3	100*	V
Divis	1	35	V	Tacolneston	3	45*	H
Redruth	1	10*	H	Skriaig	3	12*	H
Thrumster	1	7*	H	Bressay	3	6*	V
Llanddona	1	6*	V	Morecambe Bay	3	5*	H
Llandrindod Wells	1	1.5	H	Blaen-plwyf	3	3*	H
Holme Moss	2	100	V	Sutton Coldfield	4	100	V
Rosemarkie	2	20*	H	Sandale	4	30*	H
No. Hessary Tor	2	15*	V	Sandale	6	70*	H
Swingate	2	1.5*	V	Melvaig	4	25*	V
Londonderry	2	1.5*	H	Meldrum	4	17*	H
Manningtree	4	5*	H	Forfar	5	5*	V
Haverfordwest	4	10*	H	Br. Mountain	5	7*	V
Les Platons	4	1	H	Douglas	5	3*	V
Wenvoe	5	100	V	Fort William	5	1.5	H
Wenvoe	13	200*	V	Peterborough	5	1	H
Orkney	5	15*	V	Moel-y-parc	6	20*	V
Pontop Pike	5	17	H	Winter Hill	12	125*	V
				Belmont	13	20	V

+70 low power satellites.
D.Prgr: All stations: Trade Test tr's: Mon-Sat from 09.00 until beginning of programmes. **Prgrs:** Mon-Fri 12.30-12.53, 15.20-22.30 (approx). Sat 08.30-23.15 (approx). Sun 08.00-22.30 (approx). For schools during term-time: 08.15-11.15, 13.05-13.45 (approx).

BBC-2 (625 lines, UHF): colour.

Stations	ch	kW (ERP)	H	Stations	ch	kW (ERP)	H
Rowridge	24	500	H	Weardale	44	1	V
Aldeburgh	26	2.5	V	Darwen	45	0.5	V
Chesterfield	26	0.5	V	Larne	45	0.5	V
Kilvey Hill	26	2.5	V	Moel-y-parc	45	100	H
Lark Stoke	26	10	V	Saddleworth	45	0.5	V
Newton	26	0.5	V	Skipton	45	2.5	V
Rhondda	26	1	V	Todmorden	45	0.5	V
West Runton	26	0.5	V	Black Hill	46	500	H
Aberdare	27	0.125	V	Bristol Ilchester Cres.	46	0.5	V
Bromsgrove	27	10	V	Guildford	46	2.5	V
Craigkelly	27	100	H	Emley Moor	51	1000	H
Divis	27	500	H	Wenvoe	51	500	H
Durris	27	500	H	Tacolneston	55	250	H
Fenham	27	2	V	Dover	56	100	H
Fenton	27	10	V	High Wycombe	62	0.5	V
Sandy Heath	27	750	H	Malvern	62	10	V
Sheffield	27	1.25	V	Winter Hill	62	500	H
Bath	28	0.25	V	Brierley Hill	63	10	V
Belmont	28	500	H	Brighton	63	2.5	V
Bilsdale West Moor	28	500	H	Oxford	63	500	H
Caradon Hill	28	500	H	Llandona	63	100	H
Merthyr Tydfil	28	0.5	V	Reigate	63	2.5	V
Pendle Forest	28	0.5	V	Mendip	64	500	H
Pontypridd	28	0.5	V	Pontop Pike	64	500	H
Crystal Palace	33	500	H	Hertford	64	0.5	V
Sutton Coldfield	40	1000	H	Kidderminster	64	2	H
Reigate	44	10	V	Waltham	64	250	H
Sudbury	44	250	H				
Tunbridge Wells	44	4	V				

D.Prgr: Trade Tests: W 09.00-10.00, 10.30-18.00. **Prgr's:** Mon-Fri 10.00-10.20, 18.00-22.30 (approx). Sat 14.00-15.30, 17.30-23.30 (approx), Sun 18.00-22.30 (approx).
BBC-1 began transmitting UHF at 625 lines in colour — duplicating the existing VHF 405 lines services. The first group of stations will be:

	ch	ch	
Crystal Palace (London)	23(ITA)	26(BBC1)	1000kW
Sutton Coldfield (Midlands)	43(ITA)	46(BBC1)	1000kW
Winter Hill (Manchester and North West)	59(ITA)	55(BBC1)	500kW
Emley Moor (Leeds and North East)	47(ITA)	44(BBC1)	1000kW
Rowbridge (Central/Southern England	27(ITA)	31(BBC1)	500kW
Dover (SE England)	66(ITA)	50(BBC1)	100kW
Black Hill (Central Scotland)	43(ITA)	40(BBC1)	500kW

and this duplicate service will be extended progressively to all BBC-2 stations.

INDEPENDENT TELEVISION AUTHORITY (I.T.A.) (Comm.)

ADDR: 70 Brompton Rd, London, S.W.3. **Te:** 584-7011.
L.P: Chmn: Rt. Hon. Lord Aylestone. Dir. Gen: Sir S. Fraser. Dep. Dir. Gen. (Prgr. Sces.): B. C. Sendall. Dep. Dir. Gen. (Adm. Sces.): A. W. Pragnell.

Stations:	ch	kW (ERP)	Po.	Stations	ch	kW (ERP)	H
Ridge Hill	6	10	V	Lichfield	8	400	V
Sandy Heath	6	30	H	Preseiy	8	100	H
Scarborough	6	1	H	Richmond Hill	8	10	H
Bala	7	100	V	Rothesay	8	1	V
Belmont	7	20	V	Rumster Fst.	8	30	V
St. Hilary (W)	7	100	V	Strabane	8	100	V
Whitehaven	7	100	V	Black Mntn.	9	100	H
Bath	7	500	H	Croydon	9	400	V
Burnhope	8	100	H	Durris	9	400	H

Stations	ch	kW (ERP)	Pol.
Fremont Pt.	9	10	H
Llandrindod Wells	9	2.5	H
Stockland Hill	9	100	V
Winter Hill	9	100	V
Arfon	10	10	H
Aviemore	10	1	H
Black Hill	10	475	V
Dover	10	100	V
Emley Moor	10	200	V
St. Hilary	10	200	V
Abergavenny	11	100	H
Angus	11	50	V
Caldbeck	11	100	H
Chillerton Down	11	100	V
Huntshaw X.	11	500	H
Llandovery	11	100	H
Mendlesham	11	200	H
Moel-y-Parc	11	25	V
Caradon Hill	12	200	V
Lethanhill	12	2	V
Membury	12	30	H
Mounteagle	12	50	H
Ballycastle	13	0.1	H
Rosneath	13	100	V
Selkirk	13	25	V
Ffestiniog	13	100	V
Newhaven (due 1970)	6	1	V
Brecon (due 1970)	8	100	H

U.H.F. Stations:

Stations	ch	kW (ERP)	Pol.
*Crystal Palace	23	1000	H
†Divis	24	400	H
*Rowridge	27	500	H
†Sudbury	41	225	H
†Wemvoe	41	500	H
*Black Hill	43	500	H
*Sutton Coldfield	43	1000	H
*Emley Moore	47	1000	H
*Winter Hill	59	500	H
†Tacolneston	59	250	H
†Oxford	60	500	H
†Mendip	61	500	H
†Pontop Pike	61	500	H
†Waltham	61	250	H
*Dover	66	100	H

*) target for service in 1969; †) target for service in 1970. **D.Prgr:** Trade Tests: W 08.30 until 15 min's before start of prgr. **Prgrs:** 15.00 (Sat 11.00, Sun 10.00)-23.00 (approx).

Independent Television News Ltd, ITN House, Wells St, London W1P 3FE. **L.P:** Chief Exec: Editor: N. Ryan. Gen. Mgr: W. Hodgson. Chief News Editor: H. Whitcomb — Provides the main news bulletins for all ITA areas.

Independent Television Companies Association, Knighton House, 52 Mortimer St, London W1P 3FE. **L.P:** Secr: Laurence G. Parker — The Association acts on behalf of all prgr. companies on certain matters of common interest.

Prgr. Companies:
Anglia Television Ltd, Anglia House, Norwich, NOR O7A. **Te:** 28366. **L.P:** Presentation Mgr: B. Milne — **ATV Network Ltd,** ATV House, 18 Great Cumberland Place, London W.1. **Te:** 262 8040. **L.P:** Dir. of Prgr's: Bill Ward — **Border Television Ltd,** The Television Centre, Carlisle 25101. **L.P:** Man. Dir: J. Bredin — **Channel Islands Communications (Television) Ltd,** The Television Centre, Rouge Bouillon, St. Helier, Jersey, C.I. **Te:** 23451. **L.P:** Man. Dir: K. A. Killip — **Grampian Television Ltd,** Queen's Cross, Aberdeen AB9 2XY. **Te:** 53553. **L.P:** Man. Dir: Lord Windlesham — **Granada Television Ltd,** Granada TV Centre, Manchester 3. **Te:** (061)832-7211. **L.P:** Joint Man. Dir: C. G. Bernstein and J. D. Forman — **Harlech Television Ltd,** Television Centre, Cardiff. **Te:** 26633. **L.P:** Man. Dir: A. J. Gorard — **London Weekend Television Ltd,** Station House, Horrow Road, Wembley, Middx. **Te:** 9028846. **L.P:** Man. Dir: M. Peacock — **Scottish Television Ltd,** Theatre Royal, Hope St, Glasgow C.2. **Te:** (041)332-9999. **L.P:** Man. Dir: W. Brown — **Southern Television Ltd,** Southern Independent Television Centre, Northam, Southampton. **Te:** 28582. **L.P:** Man. Dir: C. D. Wilson — **Thames Television Ltd,** Teddington Lock, Teddington, Middx. **Te:** 3252. **L.P:** Man. Dir: Howard Thomas — **Tyne Tees Television Ltd,** Television Centre, City Rd, Newcastle-upon-Tyne. **Te:** 610181. **L.P:** Man. Dir: J. A. Jelly — **Ulster Television Ltd,** Havelock House, Ormeau Rd, Belfast BT7 1EB. **Te:** 28122. **L.P:** Man. Dir: R. B. Henderson — **Westward Television Ltd,** Derry's Cross, Plymouth. **Te:** 69311. **L.P:** Man. Dir: W. H. Cheevers — **Yorkshire Television Ltd,** The Television Centre, Leeds 3. **Te:** 0532-38283. **L.P:** Man. Dir: G. E. Ward Thomas. **TV sets:** 15.629.506. **Colour TV sets:** 130.793 — **ALF:** £6/-/- (and radio); (£11/-/- for colour sets and radio).

GREECE

NATIONAL HELLENIC BROADCASTING INSTITUTE

Addr: Mourouzi Str. 16, Athens 138. **Te:** 835.810. **L.P:** Dir: M. Jiannakakos.

Stations: chE11/E8 0.25/0.06kW H. **Test tr's:** D 16.30 (Sun 16.00)-21.30 (approx).

F.Pl: Complete TV Network (9 tr's of 30/6kW and 8 tr's of 10/2kW.

FORCES TV-STATION

Addr: 136 Messogion St, Athinai. **Te:** 828.334.
Stations: chE5, E7 and E10 60/15kW V. **D.Prgr:** W 16.30-22.00 (approx), Sun 10.00-14.00, 16.00-22.00 (approx).

PRIVATE TV-STATION THESSALONIKI

Addr: Idhiotikos Stathmos Teleraseos, Thessaloniki.
Station: chE3 0.1kW. **D.Prgr's:** 15.00-22.00.
TV sets: 220.000.

HOLLAND

NEDERLANDSE OMROEP STICHTING (N.O.S.)

Addr. and L.P: See radio.
Stations: Prgr I (Pol. H):
Lopik chE4 500/20kW, Roermond chE5 50/10W, Smilde chE6 40/8kW, Goes chE7 5/1kW, Markelo chE7 30/6kW, Goes chE29 125/25kW, Wieringermeer chE39 300/50.2kW.
Prgr. II (Pol. H):
Lopik chE27 500/200kW, Roermond chE31 500/100kW, Goes chE32 125/25kW, Wieringermeer chE45 300/60kW, Smilde chE47 500/200kW, Markelo chE54 300/60kW.
D.Prgr. (Prgr. I): Sun 14.30-16.00, 17.55-21.35; Mon/Tues 17.50-21.25; Wed 16.00-16.30, 17.50-21.20; Thurs 17.50-21.45; Fri 17.50-21.50; Sat 15.00-16.30, 17.50-21.55.
D.Prgr. (Prgr. II): Sun 17.55-21.35; W 17.50-21.30 (approx). Closing times vary between 21.15 and 21.55.
Ads. are permitted to a max. of 21 mins. daily.
TV-sets: 2.868.917 — **ALF:** Dfl. 75,-.

HUNGARY

MAGYAR RADIO ES TELEVIZIO

Addr: Television Direction, Szabadságtér 17, Budapest V. **Te:** 113-200. **L.P:** Pres: I. Tömpe. Vice Pres. and Gen. Dir: F. Pécsi. Dir. Adm: L. Fazakas. Dir. Tec: R. Kerpel. Dir. For. Rel: A. Budai.

Stations:	ch	kW/Pol.	Stations:	ch	kW/Pol.
Budapest I	R1	30/10H	Szekszárd	R8	0.02H
Pécs	R2	1/0.4H	Miskolc	R9	0.05/0.025H
Tokaj	R4	20/5H	Sopron	R9	0.05/0.025V
Ozd	R6	0.02H	Szentes	R11	20/5H
Komadi	R7	4/1V	Kabhegy	R12	20/4H
Kékes	R8	4/0.8H	Salgo-tarjau	R12	0.05H

D.Prgr: Sun 08.00-11.45, 16.00-22.20; Sat 09.00-12.00, 16.20-23.00. Other days: 18.00-22.20.
TV sets: 1.500.000 — **ALF:** 600 Forint.

ICELAND

RIKISUTVARPID-SJONVARP
ICELAND BROADCAST SERVICE-TELEVISION

Addr: Laugavegur 176, Reykjavik. **Te:** 3-88-00. **Telex:** 35. **Cable:** Isvision. **L.P:** Dir. Gen: A. Björnsson. Dir. TV: P. Gudfinnsson. Dir. Tec: J. D. Thorsteinsson. Head of N. and Educ: E. Björnsson. Head of Arts and Entertainment: J. Thorarinsson.

Stations:	chE	kW	Stations:	chE	kW
Stykkishólmur	3	90	Hafell	7	10
Skálafell	4	300	Hegranes	8	3
Vestmannaeyjar	5	30	Reykjavik	10	10
Vadlahaidi	6	0.2			

+25 low power repeaters.
D.Prgr: Mon/Fri 20.00-23.00; Tues 20.00-23.00; Wed 18.00-20.00, 20.00-23.00; Sat 17.00-19.00, 20.00-23.00; Sun 18.00-19.00, 20.00-23.00; Thurs no prgr.
TV sets: 33.000 — **ALF:** 2.400,- Kr.

IRELAND

RADIO TELEFIS EIREANN (Statutory Corporation)

Addr: Donnybrook, Dublin 4. **Te:** 69311. **Telex:** 5268. **L.P:** Contr. of Prgr's: M. Garvey. For other personnel: See radio.
Stations: *) System I (625 lines); †) System A (405 lines).

	ch			ch	
Dublin†	B7	100/25kW H	Carlow*	IF	100/20kW V
Sligo†	B11	100/25kW V	Dublin*	IH	100/20kW H
Clare*	IB	80/16kW H			100/20kW V
Cork*	ID	100/20kW V			

+14 low power relay st's.
D.Prgr: 16.30-22.15. **FI:** By licence payments and adv. **Ad:** 10% of prgr. hrs.
TV sets: 395.500 — **ALF:** £5-0-0 (combined TV and radio).

The equipment, the know-how and the people to solve your colour TV problems.

The **EMI** Colour Camera Type 2001 is a world beater — already in use in three continents. In the U.K. alone over 200 have been ordered by the BBC and the programme contractors of the Independent Television Authority.

Behind the success of the Type 2001 Camera are many novel features, including the capstan arrangement of the unique **EMI** printed circuit scan assemblies and the built-in zoom lens, which contribute to the compactness, balance and stability of the Camera.

This camera has set new standards of colour registration, resolution and reliability.

Ease of operation is another outstanding feature of the Type 2001. zoom positions can be pre-set and selected by push-button control.

*Contact **EMI** for details of everything needed for colour studio installation and outside broadcast vehicles.*

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EMI ELECTRONICS LTD. BROADCAST EQUIPMENT DIVISION
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ITALY

RADIOTELEVISIONE ITALIANA

The television Sce. is an integral part of the Radiotelevisione Italiana.
Addr: Direzione Centrale TV, Viale Mazzini 14,00195 Roma. **L.P:** Dir. TV Entert. Prgr: Prof. A. Romanó; Dir. TV Cultural Prgr: F. Fabiani; Dir. Radio TV Inf. Sce's: Dr. P. E. Gennarini. For other personnel: See radio.
NATIONAL PRGR:
Piemonte: Torino (C-o) 16/3.2kW+30 satellites.
Lombardia: Milano (G-o) 24/4.8kW — M. Penice (B-o) 100/20kW+87 satellites.
Trentino-Alto Adige: Paganella (G-o) 1.33/0.266kW+57 satellites.
Veneto: M. Venda (D-o) 100/20kW+78 satellites.
Friuli-Venezia Giulia: Trieste (G-o) 1.4/0.28kW — Udine (F-o) 2/0.4kW+26 satellites.
Liguria: Portofino (H-o) 127/25.4kW+42 satellites.
Toscana: M. Argentario (E-o) 2.5/0.5kW — M. Serra (D-o) 270/54kW+54 satellites.
Marche: M. Conero (E-o) 24/4.8kW — M. Nerone (A-o) 34/6.8kW+52 satellites.
Umbria: M. Peglia (H-o) 32/6.4kW+20 satellites.
Lazio: M. Favone (H-o) 0.9/0.18kW — Roma (G-o) 36/7.2kW+25 satellites.
Abbruzzo: Pescara (F-o) 1/0.2kW+14 satellites.
Campina: M. Faito (B-o) 40/0.8kW — M. Vergine (D-o) 1/0.2kW+64 satellites.
Puglia: Martina Franca (D-o) 220/44kW — M. Caccia (A-o) 34/6.8kW — M. Sambuco (H-o) 35/7kW+50 satellites.
Calabria: Gambarie (D-o) 19/3.8kW — M. Scuro (G-o) 8/1.6kW — Roseto Capo Spulico (F-v) 12/2.4kW+27 satellites.
Sicilia: M. Cammarata (A-o) 35/7kW — M. Lauro (F-o) 50/12kW — M. Pellegrino (H-o) 8/1.6kW — M. Soro (E-o) 5/1kW+53 satellites.
Sardegna: M. Limbara (H-o) 3/0.6kW — M. Serpeddi (G-o) 2.12/0.424kW — Punta Badde Urbara (D-o) 145/29kW+39 satellites. **D.Prgr:** W 08.30-14.30 "Telescuola" (for schools), 17.30-18.30 (Children's h), 18.30-23.15 (approx); Sun 10.15-12.00, 15.00-23.15.
SECOND PRGR:
Piemonte: Torino (ch30) 200/40kW+32 satellites.
Lombardia: Milano (ch26) 15/3kW — M. Penice (ch23) 1800/360kW+21 satellites.
Trentino-Alto Adige: Paganella (ch21) 10/2kW+27 satellites.
Veneto: M. Venda (ch25) 1000/200kW+19 satellites.
Friuli-Venezia Giulia: Trieste (ch31) 25/5kW — Udine (ch22) 150/30kW+10 satellites.
Liguria: M. Beigna (ch32) 60/12kW — Portofino (ch29) 1000/200kW+21 satellites.
Toscana: M. Argentario (ch24) 250/50kW — M. Serra (ch27) 200/40kW — Monte Luco (ch23) 20/4kW+27 satellites.
Marche: M. Conero (ch26) 200/40kW — M. Nerone (ch33) 200/40kW+24 satellites.
Umbria: M. Peglia (ch31) 200/40kW+8 satellites.
Lazio: Roma (ch28) 150/30kW — M. Favone (ch29) 20/4kW+11 satellites.
Abruzzo: Pescara (ch30) 30/6kW+10 satellites.
Campania: M. Faito (ch23) 1400/280kW — M. Vergine (ch31) 15/3kW+21 satellites.
Puglie: Martina Franca (ch32) 700/40kW — M. Caccia (ch25) 500/100kW — M. Sambuco (ch27) 200/40kW+25 satellites.
Calabria: M. Scuro (ch28) 25/5kW — Gambarie (ch26) 200/40kW+11 satellites.
Sicilia: M. Cammarata (ch34) 200/40kW — M. Pellegrino (ch27) 40/8kW — M. Soro (ch32) 15/3kW — M. Lauro (ch24) 200/40kW+24 satellites.
Sardegna: M. Limbara (ch32) 20/4kW — M. Serpeddi (ch30) 250/50kW — Punta Badde Urbara (ch27) 200/40 kW+14 satellites.
Pol: All st's H, exc. M. Faito, M. Argentario, Gorizia, M. Settepani, M. Ortobene, Gambarie, M. Pellegrino, Cagliari, Sassari, La Spezia, Teramo and Alghero: V.
D.Prgr: Sun 18.00-19.25, 21.00-23.30 (approx); W 21.00-23.15 (approx). **Ad:** Nat. Prgr: 3, 2%, 2nd Prgr: 2, 2% of broadc. time.
TV sets: 8.930.770 — **ALF:** Lire 12.000,-

LUXEMBOURG

TELE LUXEMBOURG (Comm.)

Addr: Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. **L.P:** See radio.
Station (819 lines): Dudelange ch7 100/25kW H+3 low power satellites. **D.Prgr:** 17.45 (Thurs, Sat, Sun 16.00)-21.30 — **TV sets:** 56.920 — **ALF:** B.frs. 192.00.

MALTA

BROADCASTING AUTHORITY MALTA

An independent Authority, to regulate and supervise radio and television broadc. in Malta with power to prescribe and produce prgr's. **Addr:** 12 Old Treasury Street, Valletta. **Cable:** Broadcasts. **Te:** 21281. **L.P:** See radio.

THE MALTA TELEVISION SERVICE LTD. (Comm.

A subsidiary of Rediff. International Ltd. London (Priv. Comm.)
Addr: P.O. Box 384, Gwardamanga. **Te:** Ce 25051. **Cable:** Television. **L.P:** Man. Dir: E. A. Hamilton-Hill, OBE. Gen. Mgr: G. Binns, MA. Mgr: J. A. Manduca. **Station:** ChE10 4.8/1.2kW H. **D.Prgr:** 17.00-21.30.
Fi: Adv. revenue and contributions for certain prgrs. prescribed by Malta Broadc. Authority.
TV sets: 50.000 — **ALF:** £4-0-0.

MONACO

TELE MONTE-CARLO (Comm.)

Addr: 16 Blvd. Princess Charlotte, Monte-Carlo. **Cable:** Tele-Carlo. **Te:** 305940. **L.P:** Dir. Gen: J. Frydman. Gen. Mgr: J. F. Micheo. Dir. Tec: R. Giraud. **Station:** chF10 50/12.5kW H. **D.Prgr:** 17.30-22.00. Monoscope identification 14.00-17.00.
TV sets: 15.050.

NORWAY

NORWEGIAN BROADCASTING CORPORATION — TELEVISION

Addr. and L.P: See radio.

Stations:	ch	kW(ERP)	Stations:	ch	kW(ERP)
Greipstad	2	60	Oslo	6	100
Gulen	2	30	Reinsfjell	6	60
Melhus	2	100	Salten	7	12
Steigen	2	60	Sogndal	7	20
Varanger	2	30	Bokn	8	100
Bagn	3	10	Jetta	8	4
Gamlemsveten	3	60	Kappfjell	8	2
Hemnes	3	60	Kistefjell	8	4
Kautokeino	3	8	Tana	8	30
Bremanger	4	30	Bergen	9	140
Hadsel	4	30	Hammerfest I	9	30
Kongsberg	4	100	Lyngdal	9	30
Førde	5	1.2	Tron	9	30
Grong	5	30	Lillehammer	10	1
Karasjok	5	10	Narvik	10	30
Nordhue	5	60	Norfjordeid	10	3
Stord	5	20	Skien I	10	30
Bjerkreim	6	15	Fister	11	1.5
Grimo	6	0.55	Lønahorgi	11	10
Hestmannen	6	4.6	Trolltind	11	8
Nordkapp	6	30			

+233 low powered satellites less than 0.5kW not mentioned. **D.Prgr:** W 08.30-16.00 (exc. Sun. and Tues).
Prgr's: 17.00-21.30 (approx).
TV sets: 773.346 — **ALF:** N.Kr. 210.00.

POLAND (People's Republic of)

POLSKIE RADIO TELEWIZJA (Gov.)

Addr: Telewizja, Plac Powstanców 7, Warszawa. **Te:** 263093. **Cable:** Telewar. **Telex:** 813421. **L.P:** Pres: W. Sokorski. Vice Pres: S. Stefanski. Vice Pres. Engineering: K. Kozlowski. Dir. Prgr: W. Lozinski. Film Buyer: C. Papiernik. Head, Foreign Rel: T. Kedzierski.
Stations (OIRT): Pol. H exc. where indicated.

Location	chH	kW(ERP)	Location	chH	kW(ERP)
Bydoszcz	1	100/20	Poznan	9	150/30
Warszawa I	2	80/16	Gdansk	10	100/20
Zielona Góra	3	200/40*	Kraków	10	200/40
Kielce	3	100/20	Opole	10	60/15W
Lódz	7	100/20	Warszawa II	11	1/0.2
Bialystok	8	100/20	Zgorzelec	11	3/0.3 V
Katowice	8	265/50	Rzeszów	12	100/20 V
Koszalin	8	100/20 V	Szczecin	12	100/20
Lublin	9	120/24 V	Wroclaw	12	150/30
Olsztyn	9	100/20 V			

+56 low power satellites — *) directional aerial.
D.Prgr's: 08.00-10.00, 16.00-22.00.
TV sets: 3.389.542 — **ALF:** 480 Zlotys.

PORTUGAL

RADIOTELEVISAO PORTUGUESA S.A.R.L. (Comm.)
Addr: Head Office: Rua de S. Domingos (à Lapa) 26, Lisboa. **Te:** 66134. **Cable:** Televisão. **Telex:** 1576. Mailing addr: Apartado 2934, Lisboa. **Studio in Lisboa:** Alameda da Linhas de Torres, 44. **Porto:** Mafamude Vila Nova de Gaia.
L.P: Chmn. of the Board: Dr. R. Valadão. Gen. Mgr. (Prgrs): Eng. E. Matos Correia. Asst. Gen. Mgr. (Adm.): Eng. F. X. Conceicão. Tech. Dir: Eng. B. Machado. Head of External Rel. Div: Dr. Antonio Bivar.
Stations (chE): Lisboa 7 100/20kW H, Porto 9 100/20kW H, Lousa 3 60/12kW H, Montejunto 6 1/0.2kW H, Mendro 5 30/6kW H, Muro ch2 40/8kW V. **Relay st's:** Monchique ch8 15/3kW H, Marofa ch5 5/1kW H, S. Mamede ch10 5/1kW H+15 low power st's. **D.Prgr:** 13.30 (Sat 16.00, Sun 11.00)-23.00.
Second Prgr. (experimental): Lisboa ch25 420/84kW H. **D.Prgr:** 20.30-23.00.
TV sets: 329.259 — **ALF:** Esc. 360,-

ROMANIA

RADIODIFUZIUNEA TELEVIZIUNEA ROMANA
Addr: Calcea Dorobanti 191, Bucuresti. **L.P:** See radio.
Stations (System OIRT-625 lines) H:

Locations	ch	kW/Pol.	Locations	ch	kW/Pol.
Bucuresti	R2	20/10 H	Timisoara	R9	5/1.5 H
Oradea	R3	20/6 H	Iasi	R9	5/1.5 H
Suceava	R4	5/1.5 H	Mara-mures	R10	5/1.5 H
Birlad	R5	5/1.5 V	Topolog	R10	4/1.5 H
Harghita	R5	5/1.5 H	Neptun	R11	4/1.5 H
Bucegi	R6	20/10 H	M. Boiului	R12	5/1.5 H
Galati	R7	0.15/0.03 V	Coma-nesti	R12	3/0.6 H
Oltenia	R8	20/10 H			
Constanta	R8	0.4/0.15 V			

+49 low power repeaters.
D.Prgr: Prgr. I: 18.00-23.30 (Sun 17.30-23.15). Prgr. II: Thurs, Sat, Sun 19.00-22.00. Morning Prgr: Wed, Thurs, Fri 10.00-11.00 (or 11.30); Sun 08.30-13.00.
TV sets: 590.000.

SPAIN

TELEVISION ESPANOLA (Gov.)
Addr: Apt. de Correos 26002, Madrid 11. **Te:** 2381333. **Telex:** 07694. **L.P:** Dir. Gen: J. A. Bernal. Vice Dir. Gen. L. Ezcurrar C. Dir. Prgr. (1st Netw.): J. de Los Casas. Dir. Prgr. (2nd Netw.): S. Pons. Dir. Tec: E. Gavilán.
Stations (System B):
1st Prgr:

Location	chE	kW (ERP)	Po	Locatien	chE	kW (ERP)	Po
Madrid	2	250/50	H	Logroño	5	4/0.8	H
Vejer	2	3/0.6	V	Alpicat	5	3/0.6	H
Gomoniteiro	3	70/14	H	Mallorca	6	3/0.6	H
Alicante	3	60/12	H	Granada	7	200/40	H
Zaragoza	3	35/7	H	Matadeon	7	6.25/1.25	H
Barcelona	4	150/30	H	Burgos	8	13/2.6	H
Guadalcanal	4	120/24	H	Cadiz	8	1/0.2	H
Santiago	4	120/24	H	Lugo-Sarria	9	1.5/0.3	H
Sollube	4	60/12	H	Pena de Francia	9	1.4/0.28	H
Madrid	5	2/0.4	H	Ceuta	11	7/1.4	H
Valencia	5	10/2	H	Mon-tanchez	11	3.5/0.7	H
La Guardia	5	5.6/1.1	H				

D.Prgr: Mon-Fri 13.00-16.00, 18.00-23.00; Sat 13.00-24.00; Sun 09.30-23.00.
2nd Prgr:

Location	chE	kW (ERP)	Po	Location	chE	kW (ERP)	Po
Santiago	2	40/8	H	Alicante	32	100/20	H
Madrid	21	100/20	H	Zaragoza	33	250/50	H
Bilbao	22	60/12	H	San Sebastian	48	100/20	H
Valencia	22	60/12	H	Sevilla	52	100/20	H
Madrid	24	870/174	H				
Barcelona	31	300/60	H				

D.Prgr: 19.45-23.00 (Sat 24.00) — **TV sets:** 3.350.000.

SWEDEN

SVERIGES RADIO
Swedish TV, run by Sveriges Radio, has the same non-comm, and official status as the broadc. service — **Addr:** Radiohuset, Oxenstiernsgaten 2, Stockholm. Postal Addr: Box 955, Stockholm 1. **Te:** 670865 (local 631000). **Cable:** Broadcast — **L.P:** Dir. Prgr. I: H. Unsgaard. Dir. Prgr. II: Ö. Wallqvist. Coordinator: H. Dyfverman. Eurovision: Mrs. M. Lamby. For other personalities: See radio.
The Central Administration of Swedish Telecommunications has the responsibility for the distribution of the prgr's produced by Sveriges Radio and has also charge of the collection of fees. **Addr. and L.P:** See radio.
Stations: Prgr. I (chE):

Name	ch.Pol.	kW (ERP)	Name	ch.Pol.	kW (ERP)
Hörby	2 H	100/10	Trolhättan	7 H	1/0.1
Örebro	2 H	60/6	Väddö	8 V	200/20
Vännäs	2 H	60/6	Bäckefors	8 H	60/6
Uddevalla	2 V	5/0.5	Emmaboda	8 H	60/6
Skövde	3 H	60/6	Haparanda	8 H	60/6
Sveg	3 H	60/6	Lycksele	8 V	30/3
Boden	4 H	60/6	Ange	8 H	15/1.5
Stockholm	4 H	60/6	Mora	8 V	10/1
Östersund	4 H	60/6	Västerås	8 H	10/1
Finnveden	4 V	3/0.3	Gällivare	9 H	60/6
Arvidsjaur	5 H	60/6	Gävle	9 H	60/6
Norrköping	5 H	60/6	Göteborg	9 H	60/6
Sundsvall	5 H	60/6	Täsjö	9 H	60/6
Vislanda	5 V	5/0.5	Visby	9 H	25/2.5
Karlstad	5 V	1/0.1	Karlskrona	9 V	3/0.3
Bollnäs	6 H	60/6	Hälsingborg	9 H	1/0.1
Kiruna	6 H	60/6	Linköping	9 H	1/0.1
Västervik	6 H	60/6	Borlänge	10 H	60/6
Skellefteå	6 H	10/1	Nässjö	10 H	60/6
Borås	6 H	3/0.3	Storuman	10 H	60/6
Uppsala	6 H	3/0.3	Malmö	10 H	1/0.1
Örnsköldsvik	6 V	3/0.3	Varberg	10 V	1/0.1
Halmstad	7 H	60/6	Kisa	11 H	30/3
Pajala	7 H	60/6	Östhammar	11 H	30/3
Sollefteå	7 H	60/6	Karlshamn	11 H	10/1
Sunne	7 H	60/6	Hörby	43 H	500/50
Motala	7 H	3/0.3			

+126 low-power satellites (and 14 satellites before July 1st, 1970).
D.Prgr (School prgr's not included): Sun 12.00-14.00, 15.00-16.00, 17.15-22.00; Mon 13.00-15.00, 17.30-21.45; Tues 15.30-15.50, 18.00-21.00; Wed 13.00-15.15, 17.30-21.00; Thurs 18.00-21.30, 15.30-15.50, 17.00-21.35; Sat 13.00-22.30. Times are approx.
Prgr. 2. The second Swedish TV Prgr. (TV2) will start on the 5th December 1969. Then the following st's are planned to be in operation (all st's with Pol. H, sound power 1/10 of vision power stated):

Name	ch	kW(ERP)	Name	ch	kW(ERP)
Nässjö	22	1000	Västerås	31	1000
Stockholm	23	1000	Norrköping	32	1000
Uddevalla	23	1000	Vislanda	32	1000
Halmstad	24	1000	Hörby	33	500
Bäckefors	26	1000	Boden*	36	100
Karlshamn	26	1000	Skövde	37	1000
Västervik	26	1000	Borås	42	1000
Östhammar	26	1000	Karlstad	43	200
Gävle	27	1000	Borlänge	47	1000
Malmö	27	150	Sundsvall	47	1000
Östersund	27	1000	Vännäs	47	1000
Bollnäs	29	1000	Finnveden	48	1000
Göteborg	30	1000	Örebro	48	1000
Emmaboda	31	1000	Kisa	49	1000
			Varberg	49	200

*) Provisional st. to be replaced by a permanent st. in 1970/71. Regular colour tr's will start on April 1st, 1970.
TV sets: 2.393.917 — **ALF:** Sv. Kr. 180.00 (incl. radio).

SWITZERLAND

SBC SWISS BROADCASTING CORPORATION
The SBC's Television programme services are an integral part of the Swiss Broadcasting Corporation.
Addr: SBC, Giacomettistrasse 1,3000 Berne 16. **Cable:** Radif. **Te:** (031)445555. **Telex:** 32.116 — **L.P:** TV Dir. at the headquarters of the SBC: Edouard Haas. Head of TV Coordination: F. R. Tappolet. Head of Technic: H. R. Züst. **Prgr. Sce. in German:** Reg. TV Dir: Dr. Guido Frei, Leutschenbachstrasse 110, 8052 Zürich. **Te:** (051)602200. **Prgr. Sce. in French:** Reg. TV Dir: René Schenker, 6 Place des Eaux-Vives, 1211 Genève. **Te:** (022)359060. **Prgr. Sce. in Italian:** Reg. TV Dir: Franco Marazzi, 6903 Lugano-Besso. **Te:** (091)32021.

Stations: chE, Pol: H.

German Prgr.	**ch**	**kW (ERP)**		**ch**	**kW (ERP)**
Bantiger	2	100	Gebidem	11	3
Uetliberg	3	100	St. Chrischona	11	50
Rigi	6	30	Niederhorn	12	5
Säntis	7	15	Haude Nendaz	43	30
Celerina	9	6	Monte Ceneri	46	35
Valzeina	10	5	M.S. Salvatore	54	30
+70 low power st's.					

French Prgr.	**ch**	**kW (ERP)**		**ch**	**kW (ERP)**
La Dôle	4	144	Bantiger	10	100
Haude Nendaz	7	3	Mont Pèlerin	11	3.5
Les Ordons	7	6	Rigi	32	130
La Chaux-de-Fonds	9	4.5	Gebidem	52	30
+44 low power st's.					

Italian Prgr.	**ch**	**kW (ERP)**		**ch**	**kW (ERP)**
Celerina	7	3	M.S. Salvatore	10	10
Monte Ceneri	5	4.5	Valzeina	53	25
+30 low power st's.					

D.Prgr: German: Sun 09.00-21.30; Mon 17.15-21.15 (or 21.30); Tues 08.15-09.45, 17.15-21.30 (or 22.00); Wed 15.15-21.15 (or 21.30); Thurs 16.00-21.15 (or 21.30); Fri 13.15-15.00, 16.00-21.30; Sat 08.00-11.00, 13.00-22.00.
French: Sun 09.00-21.30 (or 22.00); W 16.00 (Tues/Fri 17.30, Sat 13.00)-21.30 (or 22:00).
Italian: Sun 09.00-11.15, 15.00-22.00; W 17.00 (Sat 13.00)-22.00.
Fi: By the proceeds from the TV licence-fees, divided between the SBC and PTT at the rate of 70:30 per cent, and from February 1st, 1965, by the proceeds from commercial television: 15 minutes per weekday at the utmost in the early evening at the rate of 8500 frs. a minute — **TV** sets: 1.090.620 — **ALF:** Frcs. 84.-

U.S.S.R.

THE SOVJET TELEVISION (Gov.)

Addr's of the most important TV studios: Tsentralnaja studija televidenija Moskva, ul. Sjabolovka 53 — Leningradskaja studija televidenija ul. Malaja Sadovaja 2 — Kijevskaja studija televidenija Kijev, Krestjatik 24 — Minskaja studija televidenija Minsk, ul. Kalinina 6 — Rizjskaja studija televidenija Riga, ul. B. Nometnu 62 — Tallinskaja studija televidenija Tallin, ul. Krejsvalda 14 — Bakinskaja studija televidenija Baku, Parkovajaul — Tasjkentskaja studija televidenija, Tasjkent, ul. Navoi 69 — Jerevanskaja studija televidenija, Jerevan, pr. Ordzjonokidze 22 — Tbilisskaja studija televidenija Tbilsi, pr. Rustaveli 12 — Vilnjusskaja studija televidenja Vilnius, studija televidenija — Alma-Atinskaja studija televidenija Alma-Ata, studija televidenija — Kisjinjovskaja studija televidenija Kisiinjov, studija televidenija.
L.P: Dir: P. Shabanov (Moscow).
Stations: Television Centres: Channel R. Def. 625. Pol: H. Moscow ch1 15/5kW — Moscow ch3 7.5/3kW Moscow ch8 (colour).
D.Prgr: Prgr. I, (ch1): 07.00-10.00, 14.00-21.00 (Sat/Sun 06.00-21.00). **Prgr. II** (ch3): 15.00 (Sat 14.00, Sun 13.00)-20.00 (Sun 21.00. **Prgr. III** (ch 8): Tues-Sat 08.35-09.00, 14.15-15.00. **Prgr. IV** (ch8): 16.30-19.00.

Location	**chR**	**kW (ERP)**	**Location**	**chR**	**kW (ERP)**
†Abakan	1	2/0.4	†Perm	1	
Aktyubinsk[12]	1		†Rostov/Don	1	
†Archangelsk	1		Saratov	1	
†Armavir	1		†Sochi	1	
†Ashkabad	1		†Tomsk	1	5/2
†Astrakan	1	5/2	Tyumen	1	5/2
†Biysk	1	50/10	†Ufa I	1	5/2
†Dushanbe	1		Ust Kamenogorsk[12]	1	
†Dzhezkazgan	1		†Vladivostok	1	7/1.4
†Frunze	1		Voronesh[6]	1	
†Karaganda	1		†Yerevan	1	5/2
†Kazan	1	2/0.4	Andizhan[1]	2	
†Kiev II	1	1/0.2	Briansk[6]	2	
†Komsomolsk	1		Gorki	2	20/4
Krivoirog[4]	1		†Kalimin[6]	2	2/1
Kuldiga[8]	1		†Kiev I	2	15/4
†Leningrad	1	15/4	Komsomolsk/Ivanovo	2	
†Lvov I	1		†Krasnoyarsk	2	
†Magadan	1		Luganskˢ[4]	2	
†Minsk	1	5/2	†Lvov II	2	
Nalchik	1	5/2	Nikolayev[4]	2	
†Norilsk	1				
†Omsk	1	5/2			

Location	**chR**	**kW (ERP)**	**Location**	**chR**	**kW (ERP)**
†Novosibirsk	2		Stalino	4	15/3
†Petrozavodsk	2	5/2.5	†Tbilissi	4	5/2
Pyatigorsk	2	10/2	†Vilnius I	4	15/3
†Rubtsovsk	2		Vladimir[6]	4	
Ryazan[6]	2		†Volgograd I	4	
†Tallinn I	2	15/4	Cerepovcy	5	50/10
†Vilnius II	2		†Dnepropetrovsk	5	5/2
†Yaroslavl	2		Gerepovy	5	1/0.2
†Alma Ata	3	5/2.5	Ivanovo[5]	5	
†Baku	3	5/2.5	Kemerovo	5	
†Barnaul	3		Kohtla Järve[7]	5	
†Blagoveschensk	3	5/2	Krasnodar	5	
†Frunze II	3		Kurgan	5	1/0.2
Gomel	3		Liyepaya	5	
†Gorkij	3	20/8	Novomoskovsk	5	10/2
†Grozny	3		†Odessa	5	15/3
Irkutsk	3		Ordzonikidze	5	
Izhevsk	3		Smolensk[6]	5	
†Khabarovsk	3	5/2	Stalinogorsk	5	
†Kharkov	3	7/3.5	Ulyanovsk	5	
†Kherson	3	20/.4	Ventspils	5	
†Kiev	3	20/4	Viljandi	5	
Kirov	3		Chernigov[4]	6	
†Kishinev	3	15/4	Orel	6	
Konotop	3		Tambov[6]	6	
Kostrama[5]	3		Ussuriysk[11]	6	
†Kurgan	3	5/2	Vinnitza	6	
Kuybyshev[4]	3		Zaporoshe[4]	6	
†Leningrad II	3		†Baku II	7	
Lutsk[4]	3		Brest	7	
Magnitogorsk	3	10/2	Chistopol	7	50/10
†Murmansk	3		†Klaipeda I	7	
†Petropavlovsk	3		Yoshkar Ola	7	
†Riga I	3	5/2	†Klaipeda II	8	
†Sevastopol	3	7/3.5	Saransk	8	
Simferopol[4]	3		Tartu[7]	8	
†Sverdlovsk	3	5/2	Tservayne[8]	8	
†Tallin II	3	10/4	†Yerevan II	8	
†Tashkent	3	5/2.5	Birobidzhan[3]	9	
Ukhta	3		Kursk	9	
†Ulan Ude	3		Leninsk	9	
Vorkuta	3	25/5	Lipetsk	9	
Voronesh	3		Pskov	9	
Yuzhno Sakhalinsk	3		Yelabuga	9	
†Chelyabinsk	4		Beltsy[2]	10	
†Donetsk	4	15/3	†Riga II	10	
†Kaliningrad	4		†Ufa II	10	
Kaluga[6]	4		†Volgograd II	10	
Narva	4		Kohtla Järve[7]	11	
Novgorod[9]	4		Nizhnekamsk	11	
Pärnu[7]	4		Shyaulyay	11	
Penza[6]	**4**		Belgorod[6]	12	
Salavat[10]	4		Bratsk	12	

1) relays Tashkent; 2) relays Kishinev; 3) relays Khabarovsk; 4) relays Kiev; 5) relays Yaroslavl; 6) relays Moscow; 7) relays Tallinn II; 8) relays Riga; 9) relays Leningrad; 10) relays Ufa; 11) relays Vladivostok; 12) relays Alma-Ata — †) TV centre — **TV sets:** 20.000.000.

YUGOSLAVIA

RADIO TELEVISION YOUGOSLAVE

Addr's: Radiotélévision Yougoslave: 70, B. Kidrica. Beograd. **Te:** 43693. **Telex:** 11469 Yu jurate, Beograd — **Radiotélévision Beograd:** Takovska 10. **Te:** 342001. **Telex:** 11488 — **Radiotélévision Zagreb:** 6, Dezmanov prolaz, Zagreb. **Te:** 37251. **Telex:** 21477 — **Radiotélévision Ljubljana:** 17, Tavcarjeva, Ljubljana. **Te:** 311922. **Telex:** 31118 — **Radiotélévision Sarajevo:** Danijela Ozme 7, Sarajevo. **Te:** 26505. **Telex:** 41224 — **Radiotélévision Skopje:** Dolno Nerezi, Skopje. **Te:** 35230. **Telex:** 51157 — **Radiotélévision Titograd:** IV Proleterske brigade 2, Titograd. **Te:** 22423. **Telex:** 61133.
L.P: Radiotélévision Yougoslave: Pres. Adm. Com: V. Savić. Secr. Gen: Dr. I. Pustišek. Head For Rel: Mrs. O. Vojvodić. Pres. Prgr. Com. TV: D. Ilić. Secr. Prgr. Com. TV: M. Milosavljević. Pres. Techn. Com: Eng. R. Galić — **Radiotélévision Beograd:** Dir. Gen: Z. Vuković. Dir. TV: D. Ilić. Chief Editors TV: A. Stefanović, A. Vitorović. Dir. Tec. Eng: R. Zizić — **Radiotélévision Zagreb:** Dir. Gen: I. Bojanić. Dir. TV: T. Golubović. Chief TV Prgr: B. Lentić. Editors TV: I. Kocon, J. Mišković — **Radiotélévision Ljubljana:** Dir. Gen: M. Merčun. Dir. TV: D. Fortić. Chief Editor TV: V. Stempihar, A. Pavček. Dir. Tec. Eng: S. P. Mori — **Radiotélévision Sarajevo:** Dir. Gen: V. Savić. Dir. TV: D. Kecman. Chief Editors TV: A. Nuhbegović, Z. Marjanović. Dir. Tec: A. Stefanović — **Radiotélévision**

Skopje: Dir. Gen: M. Matevski. Dir. TV: I. Toševski. Chief Editor TV: S. Ivanovski. Dir. Tec. for transmitters and links: Eng. B. Onćevski — **Radiotélévision Titograd:** Dir. Gen: M. Perović. Chief Editor TV: R. Rotković. Dir. Tec: Eng. Lj. Kosović.
Stations (System B) chE:

Serbia	**ch**	**kW(ERP)**
Kopaonic	3	50/10
Jastrebac	5	100/20
Subotica	5	35/7
Avala	6	100/20
Goles	7	35/7
Ovcar	8	8/1.6
Crveni Cot	10	100/20
Tupiznica	10	35/7
Crni Vrh	11	35/7
+30 low power repeaters.		
Croatia		
Labistica	4	15/3
Psunj	4	100/20
Srdj	6	5/2.5
Celevac	8	50/10
Sljeme	9	100/20
Biokovo	11	100/20
Učka	11	100/20
+19 low power repeaters.		
Slovenia		
Kum	3	50/10
Krvavec	5	50/10
Slovenia	**ch**	**kW(ERP)**
Nanos	6	35/7
Pleśivec	6	35/7
Pohorje	11	10/2
Ljubljana-Krvavec	21	1/0.2
+78 low power repeaters.		
Bosnia/Herzegovina		
Bjelasnica	5	1/0.2
Kozara	6	10/2
Hum	8	10/2
Vlašic	11	100/20
+51 low power repeaters.		
Macedonia		
Crni Vrh	6	50/10
Mali laj	9	3/0.6
Pelister	4	1.5/0.3
Turtel	11	2.5/0.5
+17 low power repeaters.		
Montenegro		
Lovćen	8	67/13.5
Bjelasica	12	16.8/3.36
+30 low power repeaters.		

D.Prgr: Sun 09.25-22.35; Mon 09.35-11.30, 14.45-23.15; Tues 09.35-11.30, 14.45-22.35; Wed 09.35-11.30, 17.20-21.55; Thurs 09.35-11.30, 14.45-22.40; Fri 09.35-12.00, 14.45-23.50; Sat 09.35-11.00, 18.00-23.10. The above timings are given with regards to the general prgr. scheme. Television st's (Beograd, Zagreb, Ljubljana, Sarajevo, Skopje, Titograd) combine their regional prgr's and have their own schemes. Most of their prgr's are broadcast over the joint JRT network — **Test tr's:** W one h before tr's.
Fi: By license payments — **Ad:** 170 min's pr. week.
TV sets: 1.447.845 — **ALF:** N.Din 240,-

AFRICA

AFARS AND ISSAS

OFFICE DE RADIODIFFUSION TELEVISION FRANCAISE (Gov.)

Addr: B.P. 97, Djibouti. **L.P:** See radio.
Station (System K): Djibouti chK5 0.05kW H. **D.Prgr:** 17.15-19.45.
TV sets: 1.100.

ALGERIA

TELEVISION ALGERIE (Gov.)

Addr: 21 Blvd. des Martyrs, Alger. **L.P:** Dir. TV: M. Zitouni; for other personnel: see radio.
Stations System E (819 lines):
Alger ch8 20kW H d, Oran ch8 12.5/1.25kW H, Tizi-Ouzou ch7 0.1/0.025kW (repeat Algiers ch8), Chrea ch6 (satellite) 5/1.25kW H, Oran ch12 5/1.25kW H. **System B** (625 lines, CCIR): Alger el Bahri ch12 20/2kW H, Chrea ch9 100/25kW H, Constantine ch7 100/25kW H. **D.Prgr's:** 18.00-23.00.
TV sets: 100.000 — **ALF:** DA 85.-

CANARY ISLANDS

TELEVISION ESPANOLA EN CANARIAS

Addr: Valentin Saenz 4, pisos 5 and 6, Santa Cruz de Tenerife. **Te:** 244187. **L.P:** Dir: D. M. de Zavala Castella. **Stations:** Santa Cruz de Tenerife chE 3 350/70kW H, Las Palmas (relay) chE6 60/12W H. **D.Prgr:** 14.00-15.30, 18.15-24.00.

CONGO (Dem. Rep. of)

RADIO TELEVISION NATIONAL CONGOLAISE (Gov. Comm.)

Addr: See radio — **D.Prgr:** Started operation early 1967 (18.10-21.00). No further details available.
TV sets: 7.000.

TV COLLEGE 9Q2AC (Priv.)

Addr: B.P. 7074, Lubumbashi. **Te:** 5303. **L.P:** Dir: J. Dethier. **Station** (System K'): ch9 0.015kW. **D.Prgr:** D. exc. Tues 17.30-20.00 — **ALF:** 10 Zaïres.

CONGO (Rep.)

RADIODIFFUSION TELEVISION CONGOLAISE

Addr: B.P. 2241, Brazzaville. **L.P:** Dir: G. Bikouta-Menga. Dir. Tec: A. Ondongo. **Station** (System K' 625 lines, OIRT): ch9 2kW H. **D.Prgr:** Mon-Fri 16.00-17.30 (for schools), D 17.30-20.00 — **TV sets:** 1.500.

EGYPT

U.A.R. BROADCASTING CORPORATION OF CAIRO

Addr: TV Bldg, Cornish Rd, Cairo: **Te:** 812070. **Cable:** Kahivision. **L.P:** Chmn: M. A. Hammad. Dir. Prgr's: S. Labib. Contr. Foreign Rel: H. Essamra.
Stations: chE; (CCIR Standard).

	ch	**kW**			**ch**	**kW**	
Cairo I	5	100/20	H	El-Minya	8	160/32	V
Cairo II	7	20/4	H	Assuit I	10	50/10	H
Cairo III	9	20/4	H	Sohag	7	50/10	H
Alexandria I	6	25/5	H	Beni Suef	11	80/16	V
Alexandria II	11	24/4.8	H	Beni Ali	6	8/1.6	V
Mansoura	8	25/5	H	Quena	9	5/1	H
Tanta	10	135/27	H	Luxor	11	10/2	H
Assuan	5	5/1	H	Nagh Hamadi	5	5/1	H
Port Said	3	10/2	H	Esna	5	5/1	H
Kassassin	9	6/1.2	H	Edfo	8	5/1	H
Ismailia	6	6/1.2	V	Komombo	10	5/1	H
Suez	9	6/1.2	H				

Ist Prgr: 15.00 (Fri 09.00)-22.00; **2nd Prgr:** (Cairo II, Alexandria 11, Tanta): 17.00-22.00; **3rd Prgr:** Cairo III: 17.00-21.00. **Fi:** by license payments state subsidy and adv.
TV sets: 550.000 — **ALF:** £(Egypt) 6/0/0.

ETHIOPIA

ETHIOPIAN TELEVISION SERVICE (Gov.)

Addr: P.O. Box 1020, Addis Ababa. **Te:** 16701. **Cable:** Ethiotv. **L.P:** Gen. Mgr: A. N. Haptewold. Dir. Tec: B. J. Roche. Film Buyer: A. K. Denema. **Station:** chE7 0.5/0.1kW. **D.Prgr:** 17.00 (Sat 14.30)-19.30. For schools: Mon-Fri 08.00-10.30.
TV sets: 8.000 — **ALF:** Eth. $50.00.

GABON

RADIODIFFUSION TELEVISION GABONAISE (Gov.)

Addr: B.P. 150, Libréville. **Te:** 3784. **Cable:** Radiotelegabon. **L.P:** Dir. TV Sce: J. Adiahenot. **Stations:** System K' (625 lines): Libréville ch4 0.05/0.01kW H, Port Gentil ch8 0.05/0.01kW H. **D.Prgr:** ch4 18.00-21.00, ch8 18.00-21.00 — **TV sets:** 500.

GHANA

GHANA BROADCASTING CORPORATION

Addr: P.O. Box 1633, Accra. **L.P:** See radio.
Stations (System B 625 lines): Kissi chE2 5/1kW H, Jamasi chE3 5/1kW H, Adjankote chE4 5/1kW H, Tamale chE5 0.5/0.1kW H, Ho (relay) chE5 3/0.6W H. **D.Prgr's:** 17.55 (Sun 16.00-22.50); For schools: 09.30-12.00 — **TV sets:** 12.000 — **ALF:** £5/0/0.

IVORY COAST

TELEVISION IVORIENNE (Gov, Comm.)

Addr: B.P. 2261, Abidjan. **Te:** 49644. **Cable:** TRI. **L.P:** See radio.
Stations (System K' 625 lines): Abidjan chK'8 10/2.5kW H, Bouaflé chK'9 10/2.5kW V, Man chK'7 10/2.5kW H, Koun chK'4 10/2.5kW. **D.Prgr:** 12.30-13.00, 19.15-22.00.
TV sets: 10.000.

KENYA

VOICE OF KENYA TELEVISION (Gov, Comm.)

Addr: Box 30456, Nairobi. **Te:** 26653. **L.P:** See radio. **Stations:** chE4 (Nairobi) 30/10kW H. **Relay st's:** Kisumu chE2 1/0.35kW, Nyeri chE10 0.05kW. **Planned:** Mazeras chE6 15/5kW and repeater at Nakuru chE11 0.05kW. **D.Prgr:** 14.30 (Sun 14.00)-20.00 in English/Swahili.
TV sets: 16.000 — **ALF:** £3/0/0.

LIBERIA

LIBERIAN BROADCASTING CORPORATION (Gov, Comm.)

Addr: P.O. Box 594, Monrovia. **Te:** 22011. **L.P:** See radio. **Station:** ELTV chE6 2.5/0.45kW; Translators: Bomi Hills and Buchanan chE10 10kW. **D.Prgr:** 18.30-23.00 — **TV sets:** 6.000.

LIBYA

LIBYAN TV SERVICE

is on the air with a station in Tripoli since December 24th 1968. Further information not received. Stations planned also in Benghazi, Beida, Tobruk.

PROGRESSIVE ADVERTISERS

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London, S.W.1
Tel. 01-235 8541-9

MAURITIUS

MAURITIUS BROADCASTING CORPORATION (Comm.)
Addr: Broadcasting House, Forest Side. **L.P:** See radio. **Stations:** Malherbes chE4 5/1kW H, Port Louis *chE7 0.3/0.06kW H, Souillac *chE9, Flacq *chE11 — *) Satellite — **D.Prgr:** 14.00-18.30 — **TV sets:** 14.829 — **ALF:** Rup. 50,-

MOROCCO

RADIODIFFUSION TELEVISION MAROCAINE (Gov.)
Addr: 1, rue Al Brihi, Rabat. **L.P:** See radio. **Stations:** Rabat chM7 180/36kW H, Casablanca chM10 180/36kW H, Zerhoun chM4 180/36kW H, Oukaimeden chM6 36/9kW H, Cap Spartel chM8 36/9kW H, Bou Kouali chM6 36/9kW H, Tazekka chM8 10/2.5kW H, Biougra chM8 10/2.5kW H+7 low power repeaters. **D.Prgr:** 19.00-24.00. **French:** 20.00-21.00. **Arabic:** 19.00-20.00, 21.00-24.00.
TV sets: 130.391 — **ALF:** DH 30.00.

NIGERIA

NBC-TELEVISION (NTS — Gov Comm.)
Addr: Television House, Victoria Island, Private Mail Bag 12005, Lagos. **Te:** 26391. **Cable:** Nivision. **L.P:** Ag. Dir: M. Olumide. Asst. Chief Eng: S. A. Jinadu. Contr. Prgr's: S. Olusola. Sales Mgr: B. Oviagele.
Station: Lagos chE10 40/8kW H, Ibadan chE2 6/1.2kW H — **D.Prgr's:** 17.30-23.00. **Fi:** By state and comm. revenue. **Ad:** 10% of broadc. time.

RADIO KADUNA TELEVISION (RKTV)
Addr: RKTV, Box 250, Kaduna, No. Nigeria. **Te:** 2294. **Cable:** Radionorth. **L.P:** See radio. **Stations:** Jaji chE4 48kW H, Kano chE10 25kW H, Zaria chE4 40kW. **D.Prgr:** 17.30-21.30.

WESTERN NIGERIA RADIOVISION SERVICE
Addr: P.O. Box 1460, Ibadan. **L.P:** See radio.
Stations: Ibadan chE4 60/12kW H, Abafon (Lagos) chE3 60/12kW H (relays Ibadan). **D.Prgr:** 16.30-21.45 (for 22.15): Schools 10.00-10.30, 12.00-13.00.
TV sets: 55.000. **ALF:** £2/10/0.

REUNION

OFFICE DE RADIODIFFUSION TELEVISION FRANCAISE (Gov.)
Addr: B.P. 309, St. Denis. **L.P:** See radio.
Stations (System K' 625 lines): St. Denis chK8 0.05kW (+7 satellites 3-100W). **D.Prgr:** 15.00-18.00.
TV sets: 15.851 — **ALF:** N. Frs. 100.

RHODESIA

RHODESIA TELEVISION LIMITED
Addr: P.O. Box HG 200, Highlands, Salisbury. **L.P:** Man. Dir: J. Terry. Eng-in-charge: A. Stonebank.
Stations: Salisbury chE4 20kW, Bulawayo chE3 3kW.
D.Prgr: 17.00-23.00.
TV sets: 48.000 — **ALF:** £6/0/0.

SENEGAL

SENEGAL TELEVISION (Gov, Educ.)
Addr: Project-Pilote, Centre for Mass. Inf. and Educ. (UNESCO), B.P. 2375, Dakar. **Te:** 24489.
Station (625 lines): Dakar chE7 0.05kW H.
D.Prgr's: Mon, Tues, Wed, Thurs 17.00-17.30. Twice a month Fri 21.00-22.15 — **TV sets:** 1.000.

SIERRA LEONE

SIERRA LEONE TELEVISION (Gov, Comm.)
Addr: Private Mailbag, Freetown. **Te:** 3997. **L.P:** Ag. Gen. Mgr. and Chief Eng: A. H. Khanu. Film Buyer: C. A. Thomas.
Station: chE2 0.4/0.1kW H. **D.Prgr:** W 18.30-23.00, Sun 14.00-15.00, 18.30-23.00.
TV sets: 3.050.

SUDAN

SUDAN TELEVISION SERVICE (Gov, Comm.)
Addr: P.O. Box 1094, Omdurman. **Te:** 52100. **Cable:** Irshad-TV. **L.P:** Dir: S. A. M. Shummo. Dir. Tec: R. Mirghani. **Station:** chE5 1.5kW H. **D.Prgr:** 16.30-20.30.
Planned: St's at Atbarah and Port Sudan+3 low power repeaters for Wad Medani area — **TV sets:** 35.000.

TUNISIA

RADIODIFFUSION TELEVISION TUNISIENNE (Gov.)
Addr: 71, Ave de la Liberté, Tunis. **Te:** 259311. **L.P:** Dir. Tec: M. Chaffai.
Stations (CCIR; B, 625 lines): Zaghouan chE11 280/100 kW H, Sfax chE8 365/162kW H, Beja chE9 25kW H, Ain Draham chE12 25kW H, Bizerte chE6 5kW H, Hammam-Lif chE7 5kW V, Bou Kornine chE5 1kW V (Italian Prgr). **D.Prgr** (Arabic): 18.00-21.30.
TV sets: 38.000 — **ALF:** $10.00.

UGANDA

UGANDA TELEVISION SERVICE
(Comm. — operated by Ministry of Inf. Broadc. and Tourism).
Addr: P.O. Box 4260, Kampala. **Te:** 54461. **L.P:** Dir: A. Ansari. Chief Eng: E. Spain. **Stations:** Kampala chE5, Lira chE7, Masaka chE8, Mbale chE8, Mbarara chE10, Soroti chE10 (all 55kW H). **D.Prgr:** 12.00-20.00.
TV sets: 10.000 — **ALF:** East African sh: 5/-.

UPPER VOLTA

VOLTA VISION (Gov.)
Addr: B.P. 511, Ouagadougou. **Te:** 22641. **L.P:** See radio. **Station** (System D 625 lines): Ouagadougou ch6 0.75/0.15 kW V. **D.Prgr:** Irregular. **Projected:** Koudougou 1kW H, Bobodioulasso 1kW H — **TV sets:** 5.000.

ZAMBIA

TELEVISION ZAMBIA (Gov. Dept.)
Addr: Broadc. House, P.O. Box RW 15, Lusaka. **Te:** 72986; P.O. Box 1100, Kitwe. **Te:** 3507. **Cable:** Broadcasts TV. **L.P:** Dir: A. Nkhata. Contr. TV: G. J. Wykes. Chief Eng: J. Allerton. Head of Operations: N. Jere. **Stations:** Lusaka chE3 0.8/0.16kW H, Kitwe chE4 40/8kW H, Kabwe chE2 0.8/0.016kW.
D.Prgr's: 15.00-21.00. **Educ. Prgr's** (school terms only): 09.45-11.00 (Kitwe) — **TV sets:** 20.000 — **ALF:** £5/0/0.

ASIA

CAMBODIA

R. CAMBODGE TELEVISION (Gov.)
Addr: 28. Ave. Preah Mohaksatryany Kossomak, Phnom Penh. **L.P:** See radio. **Stations:** chA8 40/8kW H, Bokor chA11 0.8/0.02kW (rel). **D.Prgr:** Mon, Wed, Fri, Sat 11.00-13.00 — **TV sets:** 25.000.

CHINA (People's Rep. of)

Stations: Peking	Vision MHz	Sound MHz	Stations:	Vision MHz	Sound MHz
1st Prgr.	57.75	64.25	Canton	57.75	64.25
2nd Prgr.	77.25	83.75	Sian	49.75	56.25
Shanghai	93.25	99.75	Taiyuan	49.75	56.25
Tientsin	77.25	83.75	Hofei	85.25	91.75
Harbin	49.75	56.25	Nanking	49.75	56.25
Shenyang	93.25	99.75	Wuhan	93.25	99.75
Changch.	57.75	64.25			

Relay st's: Hangchow† 57.75/64.25MHz Soochow† 57.75/64.25MHz, Tangshan* chR4, Wusih† 57.75/64.25MHz. *) repeating Peking; †) repeating Shanghai; Peking I: 5/2.5kW H.
Experimental st's: Ansham, Changsha, Chengtu (all 57.75/64.25MHz), Chiamussu chR1, Foochow chR5, Fushun chR1, Hekang chR4, Kirin chR1, Kweiyang chR5, Lanchow chR1, Tsinan chR3, Tsitsihar 57.75/64.25MHz — **NB:** No recent information available.

CHINA (Rep. of Taiwan)

NATIONAL EDUCATIONAL TV-STATION (Gov.)
Addr: 41 Nan-hai Rd, Taipei. **Te:** 36166. **L.P:** St. Dir: Prof. C. C. Liu. Dir. Tec: S. Y. Chang. Dir. Prgr: C. T. Wan. Dir. of Promotion: D. Lin.
Station: BET31 chA 11 4/2kW. **D.Prgr:** 05.00-08.00. Planned 8 low powered repeater st's.

TAIWAN TELEVISION ENTERPRISE (Comm.)
Addr: 990 Chung Cheng Rd, Taipei. **Te:** 779171. **Cable:** Television. **L.P:** Pres: Th. S. Chou. Vice Pres: P. C. C. Chang, W. Y. Lee. Dir. Eng. Dept: R. L. C. Huang. Dir. Prgr: Y. M. Ho. **Stations:** BET21 chA7 125/50kW (No. Taiwan), BET22 chA12 70/70kW (Ce. Taiwan), BET23 chA7 14/14kW (So. Taiwan) (+3 satellites).
D.Prgr: W 04.30-06.00, 09.30-15.30; Sun 04.30-15.30.
TV sets: 300.000 — **ALF:** NT$ 60.-

HONG KONG

TELEVISION BROADCASTS LTD.
Addr: HK-TVB, P.O. Box 100, Kowloon, Hong Kong. **Stations** (UHF 625 line definition, full colour capability (PAL)): Jade (Chinese) and Pearl (Chinese/English). **Chinese Netw:** Jade ch21 (with translators at Golden Hill ch29, Cloudy Hill ch28, Lamma Island ch27, Castle Peak ch30). **D.Prgr:** 08.15 (Sat/Sun 06.45)-16.00. **Chinese/English Netw:** 09.30 (Sat 09.00, Sun 07.30)-16.00.
TV sets: 130.000 — **ALF:** HK$ 36.00.

REDIFFUSION TV HONG-KONG (Comm.)
Addr: TV House, 81 Broadc. Drive, Kowloon, Hong Kong. **Te:** K-839291. **L.P:** See radio. Two simultaneous wired netw's — Closed circuit 405-line netw — **D.Prgr:** ch1 (Chinese): 23.00-01.00 (D), 04.30-06.15, 09.00-16.00 (Sat 04.15-16.00); ch2 (English): Mon-Fri 05.00-06.30, 09.00-16.00; Sat/Sun 06.00-16.00.

INDIA

ALL INDIA RADIO-TELEVISION (Gov.)
Addr: Television Centre, All India Radio, Akashwani Bhawan, Parliament St, New Delhi-1. **Te:** 382021. **Cable:** Doordarshan. **L.P:** Dir: R. Chander. Eng-in-Charge: C. R. Krishnamurthy. **Station:** New Delhi chE4 5/1kW H.
D.Prgr. (Gen. Sce): 13.30-15.30 (Sun extended to 3½h in Hindi and English, includes bi-weekly prgr's for agriculturalists and adult education, entertainment. For schools: May-March: Lessons in Chemistry, Physics, General Science, Biology, English and Social Studies. Besides, Teachers' Training Prgr's in English and Science, at least once a month. **Pub:** School Television Pamphlet (English) annual.
F.Pl: St's at Srinagar, Bombay, Calcutta, Madras and Kanpur — **TV sets:** 8717 — **ALF:** Rs 30,- (for schools and teleclubs Rs 10.-).

INDONESIA

TV REPUBLIK INDONESIA (Gov.)
Addr: Jajasan Televisi RI, Senajan, Djakarta. **Te:** 582160. **Cable:** Telviri. **L.P:** Gen. Mgr: Drs. Sumadi. Dir. of Adm: A. Buchari. Chief Engineer: Jr. Sumartono.
Stations: Djakarta chE10 60/12kW H, Jogjakarta chE9 45/9kW, Bandung chE8 8/1.6kW H, Gn. Gantungan chE6 1/0.2kW H. Under construction: Surabaja chE10 50/10kW, Medan chE10 100/20kW.
D.Prgr: 11.00-16.00 (Sat 17.00). **Ad:** 24 mins daily.
TV sets: 71.500 — **ALF:** Rp. 24.00,-

IRAN

NATIONAL IRANIAN TELEVISION (Gov, Comm.)
Addr: P.O. Box 2559, Tehran. **Te:** 628171. **L.P:** Dir. Gen: R. Ghotbi. Dir. Tec: F. Mekanik.
Stations: Tehran chE7 80/40kW, Rezaieh chE8 2/1kW, Tehran chE9 80/40kW. **D.Prgr's:** Tehran 03.00-05.00, 13.30-19.30, Rezaieh 14.30-18.30.

TELEVISION OF IRAN (Comm.)
Addr: Box 1015, Tehran. **Te:** 621101. **Cable:** Telviran. **L.P:** Owner: H. Sabet. Man. Dir: P. Patovi. Dir. Tec: D. Linford. Mgr. Public Rel: F. Esfandiary. Mgr. Programming: Mrs. M. Ramzi.
Stations: Teheran chA3 4/0.8kW H, Abadan chA3 12/2.4kW, Ahwaz chA12 0.5kW (rel. Abadan). **D.Prgr's:** 14.30-20.00 — **TV sets:** 155.000.

IRAQ

BAGHDAD TELEVISION (Gov.)
Addr: Ministry of Guidance, Broadc. House, Salhiya, Baghdad. **Station:** Salhiya chE8 38/19kW H, Kirkuk (satellite).
D.Prgr: 08.00-09.00, 15.00-21.00. **Projected st's** (repeaters): Basra, Mosul — **TV sets:** 176.000.

ISRAEL

ISRAEL BROADCASTING AUTHORITY
Addr: P.O. Box 1082, Jerusalem. **Stations:** Eitanim chE8 100/20kW, Haifa chE7 0.5/0.1kW, Safad chE6 2/0.4kW, Gaza chE6 2/0.4kW, Hebron chE5 2/0.4kW, Ramat Gan chE5 0.5/0.1kW, Haifa chE9 0.5/0.1kW, Carmel chE10 10/2kW, Beersheva chE11 2/0.4kW.
D.Prgr: 16.00-18.00 in Arabic, 18.00-20.00 in Hebrew.
TV sets: 50.000 — **ALF:** Fl. 57.50.

INSTRUCTIONAL TELEVISION CENTRE (Educ.)
Addr: 14 Klausner St, Tel-Aviv. **Te:** 41455. **Cable:** Telemudit. **L.P:** Gen. Mgr: A. Shoval. Dir of Engineering: Dr. Y. Peless.
Station (CCIR system B): Eitanim chE8 100/50kW, Haifa chE10 100/25kW, Beer Sheba chE11 100/25kW.
D.Prgr: 06.00-16.00 (Fri 12.00).

JAPAN

NIPPON HOSO KYOKAI (Corporation, non Gov, non Comm.)
Monocrome and Color-TV:
Stations: As of Oct. 1st, 1969 there is a total of 1742 st's: 871 for General TV netw. and 871 for the Educational TV netw.
Call: JO-TV — **Pol:** H and V — **Ch:** J — **Def:** 525.
Color-TV: 867 st's for General netw. and 867 for Educational netw. — System: NTSC — 1)=General Sce; 2)=Educational Sce.

Call	ch	kW/W
°) **Sapporo**		
1)IK	3	10
2)IB	12	10
Hakodate		
1)VK	4	1
2)VB	10	1
Asahikawa		
1)CG	9	1
2)CC	2	1
Shirekoma		
1)—	9	250W
2)—	2	250W
Nayoro		
1)—	4	250W
2)—	12	250W
Obihiro		
1)OG	4	1
2)OC	12	1
Kushiro		
1)PG	9	1
2)PC	2	1
Nakashibetsu		
1)—	4	250W
2)—	12	250W
Kitami		
1)KP	3	1
2)KD	12	1
Muroran		
1)IU	9	1
2)IT	2	1
°) **Sendai**		
1)HK	3	10
2)HB	5	10
Akita		
1)UK	9	5
2)UB	2	5
Yamagata		
1)JG	8	3
2)JC	4	3
Tsuruoka		
1)JP	3	1
2)JD	6	1
Morioka		
1)QG	4	3
2)QC	8	3
Kamaishi		
1)—	2	250W
2)—	12	250W
Kitafukuoka		
1)—	5	250W
2)—	12	250W
Fukushima		
1)FP	9	3
2)FD	2	3
Wakamatsu		
1)—	1	1
2)—	3	1
Aomori		
1)TG	3	5
2)TC	5	5
Hachinohe		
1)—	9	500W
2)—	7	500W
*) **Tokyo**		
1)AK	1	50
2)AB	3	50
Nijima		
1)—	52	300W
2)—	50	300W
Kofu		
1)KG	1	3
2)KC	3	3
Fujfyoshida		
1)—	9	250W
2)—	2	250W
Nagano		
1)NK	2	1
2)NB	9	1
Iida		
1)—	4	250W
2)—	3	250W
Niigata		
1)QK	8	5
2)QR	12	5
Nagoya		
1)CK	3	10
2)CB	9	10
Shizuoka		
1)PK	9	1
2)PB	2	1
Hamamatsu		
1)DG	4	1
2)DC	8	1
Kanazawa		
1)JK	4	3
2)JB	8	3
Fukui		
1)FG	9	3
2)FC	3	3
Toyama		
1)IG	3	3
2)IC	10	3
°) **Osaka**		
1)BK2	2	10
2)BB	12	10
Hikone		
1)—	48	300W
2)—	45	300W
Fukuchiyama		
1)—	49	300W
2)—	46	300W
°) **Hiroshima**		
1)FK	3	10
2)FB	7	10
Fukuyama		
1)DP	1	1
2)DD	7	1
Okyama		
1)KK	5	10
2)KB	3	10
Matsue		
1)TK	6	1
2)TB	12	1
Hamada		
1)—	2	500W
2)—	9	500W
Tottori		
1)LG	3	1
2)LC	4	1
Yamaguchi		
1)UG	9	1
2)UC	1	1
Matsuyama		
1)ZK	6	5
2)ZB	2	5
Nihama		
1)ZQ	2	250W
2)—	4	250W
Yawatahama		
1)—	8	250W
2)—	2	250W
Kochi		
1)RK	4	1
2)RB	6	1
Nakamura		
1)—	1	250W
2)—	11	250W
Tokushima		
1)XK	3	1
2)XB	38	10
Takamatsu		
1)HP	37	10
2)HD	39	10
Nishisamuki		
1)—	42	3
2)—	40	3
Kumamoto		
1)GK	9	1
2)GB	2	1
Minamata		
1)—	4	500W
2)—	1	500W
Fukuoka		
1)LK	3	10
2)LB	6	10
Izuhara		
1)—	5	300W
2)—	11	300W
Kurume		
1)—	46	300W
2)—	54	300W
Gonoura		
1)—	59	300W
2)—	56	300W
Kitakyushu		
1)SK	6	1
2)SB	12	1
Nagasaki		
1)AG	3	1
2)AC	1	1
Sasebo		
1)AT	8	1
2)AY	2	1
Kagoshima		
1)HG	3	5
2)HC	5	5
Naze		
1)—	3	250W
2)—	4	250W
Setouchi		
1)—	6	500W
2)—	10	500W
Miyazaki		
1)MG	8	1
2)MC	12	1
Nobeoka		
1)—	4	250W
2)—	2	250W
Oita		
1)IP	3	3
2)ID	12	3
Saga		
1)SP	38	5
2)SD	40	5
Imari		
1)—	51	300W
2)—	53	300W

+1604 st's below 250W not mentioned.

D.Prgr: Gen. TV: 21.00-15.00. **Educ. TV:** 21.00-15.00. **Color TV:** Gen. TV and Educ. TV: 11 hrs 43 min's (daily).

TV sets: 21.500.000. **ALF:** B. and W. TV: 3780 Yen; Color TV: 5580 Yen.

PRIVATELY OWNED COMMERCIAL TV-STATIONS
Call: JO-TV chJ — All st's with colour facilities: 525 lines — **D.Prgr:** General (approx.) W 23.00-24.00 or from 02.00-05.00, 08.00-15.00; Sun approx. 23.00 (or 00.00)-15.00.

	Call	ch	kW	Name
1)	HR	1	80/20	Hokkaido Broadc. Co, Sapporo:
1)	—	1	1/0.25	21.50-14.50
2)	FX	1	86/21.5	Tokai Television Broadc. Co, Nagoya: 21.50-16.30.
3)	EL	1	8/2	Tsuruoka
4)	IR	1	80/20	Tohoku Broadc. Co, Sendai
5)	LR	1	18/4.5	Kita-Nihon Broadc. Co, Toyama
6)	IF	1	60/15	Kyushu Asahi Broadc. Co, Fukuoka: W 21.50-15.40 (or 16.20)
7)	CF	1	40/10	R. Minami-Nihon Broadc. Co, Kagoshima
8)	JR	1	6/1.5	Shikoku Broadc. Co, Tokushima
9)	GR	1	43.5/10.8	R. Aomori Broadc. Co, Aomori: 21.45-14.00 (Sat 16.30)
10)	JR	1	1/0.25	Shikoku Broadc. Co. Ltd, Shikoku
11)	JX	1	15/3.8	Nihon-Kai Telecasting Co, Tottori
12)	AX	4	535/134	Nippon TV-Network Co, Tokyo: 21.40-15.30
13)	FR	4	130/33	RKB Mainichi Broadc. Co, Fukuoka: 21.45-17.00
14)	OR	4	100/25	MBS Mainichi Broadc. System, Osaka: 21.30-16.00
15)	ER	4	96.8/24.2	R. Chugoku Broadc. Co, Hiroshima: 21.50-18.00
16)	PM	4	4/1	Yamaguchi Broadc. Co, Shimonoseki
17)	AR	5	95/24	Chubu-Nippon Broadc.Co,Nagoya: 21.55-16.45 (Sun 22.30-15.30)
18)	DR	5	30/7.5	Broadc. System of Niigata, Niigata
19)	KX	5	100/25	Sapporo TV Broadc. Co, Sapporo
20)	JF	5	18/4.5	Yamanashi Broadc. System, Kofu: 22.00-15.00
21)	GF	5	18/4.5	R. Oita Broadc. Co, Oita
22)	UR	5	6/1.5	Nagasaki Broadc. Co, Nagasaki
23)	DF	6	18/4.5	Iwate Broadc. Co, Morioka: 21.59-07.25, 07.55-14.45
24)	KR	6	375/93.4	Tokyo Broadc. System: 21.15-17.12 (Sun 22.20-16.25)
25)	NR	6	100/25	Asahi Broadc. Corp, Osaka: 21.00-15.30
26)	MR	6	15/3.8	Hokuriku Broadc. Co, Kanazawa
27)	VO	6	9.3/2.3	Hamamatsu
1)	HO	6	6/1.5	Hakodate
1)	HW	6	12/3	Obihiro
28)	PY	6	6/1.5	Wakamatsu
19)	KY	7	12/3	Asahikawa
19)	LY	7	6/1.5	Muroran
19)	SY	7	12/3	Kushiro
29)	DX	8	100/25	Kansai Telecasting Corp, Osaka: 21.30-15.55 (Sat 16.30)
13)	FO	8	5.8/1.45	Kita Kyushu
30)	CX	8	375/93.4	Fuji Telecasting Co, Tokyo: 21.10 (Sun 21.50)-16.30 (Sat 17.30)
31)	ZR	8	10/2.5	R. Kochi Broadc. Co, Kochi
32)	KF	9	60/15	Nishi-Nippon Broadc. Co, Takamatsu
33)	AF	10	23/5.8	Nankai Broadc. Co, Matsuyama
3)	EF	10	56/14	Yamagata Broadc. Co, Yamagata
15)	EE	10	11.2/2.8	Onomichi
34)	IX	10	100/25	Yomiuri Telecasting Corp, Osaka: 21.00-15.00
35)	HF	10	12/3	Broadc. System of San In, Yonago
36)	EX	10	23/5.8	NET TV Netw, Tokyo: 21.40-15.00
37)	HX	10	1/0.25	Nishi Nippon TV Corp, Kita Kyushu
19)	WL	10	12/3	Obihiro
22)	MF	10	12/3	Sasebo
1)	QL	11	12/3	Kushiro
38)	YR	11	64/16	Sanyo Broadc. Co, Okayama
39)	TR	11	82.5/20.6	Akita Broadc. System, Akita
40)	PR	11	18/4.5	Fukui Broadc. Co, Fukui
41)	SR	11	11/2.8	Shinetsu Broadc. Co, Nagano: 21.50-15.10
1)	HE	11	12/3	Asahikawa
1)	QF	11	6/1.5	Muroran
16)	PF	11	100/25W	Yamaguchi Broadc. Co, Tokyuama

	Call	ch	kW	Name
27)	VR	11	10/2.5	Shizuoka Broadc. System Shizuoka
42)	BF	11	12/3	Kumamoto Broadc. Co,Kumamoto
28)	PX	11	3/0.75	Fukushima TV Broadc. Co.
43)	LX	11	120/30	Nagoya Broadc. Co, Nagoya: 22.00-15.00
19)	KZ	12	6/1.5	Hakodate
44)	NX	12	100/25	Hiroshima Television, Hiroshima
44)	NY	12	5/1.25	Onomichi
45)	TX	12	375/93.4	Japan Science Foundation, Tokyo
46)	OX	12	100/25	Sendai Broadc. Co, Sendai

1) North 1, West 5, Sapporo. **L.P:** Pres: S. Abe. St. Mgr: S. Abe. Exec. Dir: K. Muroya. Dir. Tec: K. Kamo (11 satellites).
2) 7 Toshin-cho, Higashi-ku, Nagoya. **L.P:** Pres: M. Abo. St. Mgr: K. Matsumoto. Dir. Tec: K. Sugita. Film Buyer: K. Nakabayashi (18 satellites).
3) 5, 2-chome, Hatagomachi, Yamagata. Pres: Y. Hattori (4 satellites).
4) 26-1, Kasumi-cho, Yagiyama, Sendai. Pres: C. Kanno (5 satellites).
5) 10-18 Ushijima, Toyama. Pres: R. Yokoyama (3 satellites).
6) 1-34 Nagahama, 1-chome, Nagahamacho, Fukuoka 810. Pres: M. Takano. Film Buyer: K. Ishibasahi (5 satellites).
7) 17, Koraicho, Kagoshima (12 satellites).
8) 32, 1-chome, Saiwaicho, Tokushima. Pres: T. Yamanouchi (8 satellites).
9) 72 Fukuda, Matsumori, Aomori City. Pres: I. Sakamoto (10 satellites).
10) Shikoku.
11) 2, 3-chrome, Honmachi, Tottori. Pres: Y. Yonehara (6 satellites).
12) 14 Niban-cho, Chiyoda-ku, Tokyo. **L.P:** Chmn: M. Shoriki. Pres: C. Fukui. Dir. Tec: F. Iso. Film Buyer: Y. Ando (14 satellites).
13) 1-10, 4-chome, Watanabe-Dori, Fukuoka. Pres: H. Kaneko (4 satellites).
14) Dojima, Kitaku, Osaka. Pres: S. Takahashi (11 satellites).
15) Motomachi 34, Hiroshima. **L.P:** Pres: Tsukifuji (23 satellites).
16) Koenku, Tokoyama. Pres: K. Nomura (23 satellites).
17) 4-15, Shinsakae-machi, Naka-ku, Nagoya. **L.P:** Pres: G. Kojima. Dir: K. Igushi (16 satellites).
18) 18, 3-chome, Kawagishicho, Niigata. Pres: E. Horiuchi (15 satellites).
19) 11, 1-chome, Nishi, Minami Ichijo, Sapporo. **L.P:** Pres: Y. Hagiwara. Dir. Tec: S. Ito. Film Buyer: R. Kaji (42 satellites).
20) 6-2 Kitaguchi, Kofu. Gen. Mgr: E. Noguchi (9 satellites).
21) 5-1315, Imazuru, Oita. Pres: Y. Hoshino (11 satellites).
22) 1-35 Kamimachi, Nagasaki. Pres: R. Nakabe (15 satellites).
23) 6-1, Shikecho, Morioka City. Pres: T. Ota (13 satellites).
24) 6-3, 5-chome, Akasaka, Minato-ku, Tokyo. **L.P:** Chmn: T. Adachi. St. Mgr: H. Suwa. Dir. Tec: M. Yoshida. Film Buyer: Y. Yamanishi (16 satellites).
25) Asahi Broadc. Corp. TV Station, 2-2, Oyodocho, Oyodoku, Osaka. **Te:** 458-5321. **Cable:** Johnrtv. **L.P:** See radio.
26) Otori, Honda-machi, Kanasawa.
27) 46 Konyamachi, Shizuoka. Pres: M. Oishi (22 satellites).
28) 5-2, Miyama-cho, Fukushima. Pres: M. Kanno (14 satellites).
29) 51 Umegae-cho, Kitaku, Osaka. **L.P:** Pres: Y. Sawamura.
30) 7 Kawadacho, Ichigaya, Sinjuku-ku, Tokyo. **L.P:** Chmn: S. Mizuno. Pres: N. Shikanai. Film Buyer: Y. Yasunaga. Dir. Tec: E. Nishiyama (16 satellites).
31) 23 Honmachi, Kochi. Pres: M. Katada (20 satellites).
32) 2-8, Marunouchi, Takamatsu. Pres: J. Hirai (8 satellites).
33) 1135-1, Dogo, Matsuyama. Pres: Y. Hirata (19 satellites).
34) 74, 2-chome, Iwai-cho, Kitaku, Osaka. **L.P:** Man. Dir: T. Okano. Dir. Tec: R. Kimura. Dir. Prgr. (Film Buyer): T. Matsuoka.
35) 423 Nishi-Fukuhara, Yonago. Pres: O. Oda (16 satellites).
36) 55 Zaimokucho, Azabu, Minato-ku, Tokyo. **L.P:** Chmn: Y. Akao. Pres: N. Yamauchi. Film Buyer: M. Ikushima. Dir. Tec: M. Iwamoto (16 satellites).
37) Yahataku, Kita Kyushu. Pres: S. Tanaka (4 satellites).
38) 3-28, Uchisange, Okayama. Pres: M. Tatsumi (15 satellites).
39) Sanno-Ohdori, Akita. Pres: Kurata (9 satellites).
40) 501 Otemachi, Fukui. Pres: S. Kato (9 satellites).
41) 1, 132 Yoshidamachi, Nagano. Pres: Ishihara. St. Mgr: T. Tanaka. Dir. Tec: K. Matsuyama (24 satellites).
42) 30 Yamasakimachi, Kumamoto. Pres: R. Fukami (12 satellites).
43) 58 Shimo-Chayamachi, Nakaku, Nagoya. Pres: S. Kamiya (14 satellites).
44) 6-4, Nakamachi, Hiroshima. Pres: S. Kawamura (18 satellites).
45) 18 Shibakoen, Minatoku, Tokyo. Pres: H. Hase.
46) Shin-Sendai Bldg, 175-4, Omachi, Sendai. Pres: S. Suzuki (5 satellites).

JORDAN

JORDAN TELEVISION (Gov, Comm.)

Addr: P.O. Box 2333, Jebel Amman, or P.O. Box 1041, Amman. **Te:** 38761. **Cable:** Television. **L.P:** Dir. Gen: M. Kamal. Asst. Dir. Gen. Adm: F. Jarrar. Asst. Dir. Gen. Engineering: T. Naserreddin. Asst. Dir. Gen. Prgr's: O. Khatib. **Stn:** Amman chE3 and E6 100kW H. **D.Prgr:** 16.00-21.00. Educ. Prgr's: Mon/Wed/Sat 06.30-08.00, 13.30-14.00 — **TV sets:** 19.000 — **ALF:** JD 500.

KOREA (Rep.)

SEOUL TELEVISION STATION (Gov.)

Addr: 33, 3ka, Yejang-Dong, Chung-ku, Seoul. **Te:** 8-4127. **L.P:** St. Mgr: J. Y. Kim. Dir. Tec: O. J. Kun. Dir. Prgr: S. E. Han. **Station:** Seoul chA9 13.4/6.7kW H +5 low power repeaters. **D.Prgr:** 21.30-23.30, 08.30-14.30 (Sat 03.30-14.30; Sun 00.30-14.30).

HANKUK MUNHWA BROADC. CORPO. (Comm, Priv.)

Addr: 22 Jung-dong, Sudaemoon-ku, Seoul. **L.P:** Pres: J. C. Cho. Dir. Gen. TV: Soo Hong Lee. Dir. Tec: K. S. Kim. Prgr. Mgr: Soon Il Chung. **Stations:** Seoul chA11 2/0.5kW (HLAC), Pusan chA12 1/0.25kW (HLAD). **D.Prgr** (Korean): 09.0013.30.

TONG-YANG BROADCASTING CO. LTD.

Addr: P.O. Box 775, Central, Seoul. **Te:** 23-9161. **Cable:** tbcradiotv. **L.P:** Pres: D. K. Kim. Exec. Dir: K. Kim. Dir. Tec: J. Kang. Prgr. Mgr: D. S. Choi. **Stations:** Seoul chA7 20/5kW H, Pusan chA9 5/2.5kW V. **D.Prgr:** Mon-Fri 08.40-14.40, Sat 08.30-14.50, Sun 22.00-15.00.

AMERICAN FORCES KOREA NETWORK

Te: 293-6495. **L.P:** See radio. **Stations** (Pol: H): Seoul chA2 5kW, Hwaakson chA12 2kW, Kunsan chA2 0.12kW, Taegu chA6 0.5kW, Taejon chA12 0.5kW, Pusan chA2 0.5kW, Pajuri chA6 1kW. **D.Prgr:** 07.00 (Sat/Sun 03.00)-16.00. — **TV sets:** 102.000.

KUWAIT

TELEVISION OF KUWAIT (Gov.)

Addr: P.O. Box 193, Kuwait. **Te:** 39411. **Cable:** Alirshad. **L.P:** Dir. TV: J. Hassoun. For other personnel: see radio. **Stations:** Dasman chE8 0.1kW H, Mutlaa chE10 2/10kW H, Rawdatein chE6 2kW H. **Projected:** So. Repeater chE8. **D.Prgr:** 14.00-21.00 (Summer 15.00-21.00). **Test tr's:** 13.00-14.00 (Summer 14.00-15.00) — **TV sets:** 80.000.

LEBANON

COMPAGNIE LIBANAISE DE TELEVISION (Comm.)

Addr: B.P. 4848, Beirut. **Te:** 300360. **Cable:** Teveliban. **L.P:** Pres. and Dir. Gen: Gen. S. Nofal. Dir. Tec: N. Loutfi. **Stations** (Pol: H): Beirut 5kW; chE7 (Arabic), chE9 (French/English), Jounieh chE2 0.1kW (relay chE9), Tripoli chE2 1kW (relay chE7), Maasser el Chouf chE4 60kW (relay chE7 and E9). **D.Prgr:** 16.00-21.00 (both channels).

TELE ORIENT (Comm.)

Addr: Box 5054, Beirut. **Te:** 284100. **Cable:** Telibor. **L.P:** Pres: J. Abou-Jaoude. Dir. Gen: H. Jamieson. Film Buyer: C. Sawaya. **Stations:** chE11 (Beirut) 100/20 kW H, chE5 (Beirut) 2/0.4kW H; Relay st's chE11 (Mt. Knaisse) 100/20kW, chE11 (Tripoli) 1/0.2kW. **D.Prgr:** 16.00-21.00 in Arabic, English, French — **TV sets:** 250.000.

MALAYSIA

MALAYSIAN TELEVISION SERVICE (Gov.)

Addr: Dept. of Television, Ankasapuri, Kuala Lumpur. **Te:** 290371. **Cable:** Tivimalaya.
L.P: Dir: Ow Kheng Law. Head of Prgr: R. I. bin Raja Zahid. Chief Eng: S. K. Tham. Film Buyer: A. K. Foo.
Stations (System B 625 lines): Kuala Lumpur chM5 100/200kW H. **Repeater st's:** B. Pahat chM7, Ipoh chM6, Johore Baru chM3, Kluang chM9, Malacca chM6, Penang chM5, Taiping chM4 (all 100/20kW H). **D.Prgr:** Mon-Wed 10.15-16.30, Thurs-Sun 07.30-16.30. **TV sets:** 123.000 — **ALF:** M$ 24.00 (combined Radio and TV).

MONGOLIA

MONGOLIAN TV CENTRE

Addr: Ulan Bator. **L.P:** St. Mgr: G. Sumya. Dir. Tec: Dorj. Film Buyer: Dojooderj. **Station** to operate in 1970 from 10.00-14.00 (Tues, Thurs, Sat and Sun).

PAKISTAN

PAKISTAN TELEVISION CORPORATION LTD.

L.P: Man. Dir: R. Khan. Dir. Adm: K. A. Islam. Dir. of Prgr. Adm: K. S. Hosain. Dir. Tec: R. Ahmad.
Stations (CCIR, 625 lines): Rawalpindi chE6 5/1kW H, Lahore chE5 5/1kW H, Dacca chE6 6/1.2kW H, Karachi chE4 6/1.2kW H. Pindi-Point Murree chE8 10/2kW H. **D.Prgr:** W 13.00-17.00, Sun 10.00-17.00. Projected: St's in Chittagong, Rajshahi, Khulna, Lyallpur and Hyderabad (to operate before June 1970).
TV sets: 50.000.

PHILIPPINES

DEPT. OF PUBLIC WORKS AND COMMUNICATIONS

Addr: Radio Control Office, Manila.
Stations (times indicated are approx.):

Call	chA	kW	Location & h. of tr.
1) DXAQ-TV	3	36	Quezon City: 01.30-16.00
1) DYCB-TV	3	10	Cebu City: 02.00-15.45
1) DZQL-TV	3	0.5	Batangas: 21.00-16.00
1) DXAW-TV	4	2	Davao City
1) DYXL-TV	4	13.7	Bacolod City: 02.00-16.00
3) DZTM-TV	5	10	Rizal: 04.00-16.00
3) DXTM-TV	5	1	Davao City: 04.00-16.00
2) DZBB-TV	7	20	Quezon City: 22.00-18.00
2) DYSS-TV	7	0.1	Cebu City: 04.00-07.00 09.00-15.30
5) —	8	0.08	Angeles City: 09.00-15.00
1) DZKB-TV	9	5	Quezon City: 21.00-16.00
1) DZXL-TV	9	105	Quezon City: 07.30-14.30
1) DZRI-TV	10	0.5	Benguet: 01.30-16.00
7) DXCC-TV	10	0.5	Cagayan de Oro City: 04.00-16.00
8) DZRH-TV	11	5	Quezon City: Mon-Fri 02.00-15.00 Sat-Sun 00.00-16.00
9) DZBS-TV	12	0.5	Baguio City: 09.00-13.00
10) DZ-TV	13	12.5	Manila: 22.00-16.00
10) DY-TV	13	2	Cebu City: 04.00-16.00
10) DX-TV	13	2	Davao City: 04.00-16.00
11) DZFU-TV	14	0.4	Manila: 02.00-15.00

1) **ABS-CBN Broadc. Corpo,** Bohol Ave, Quezon City. **Te:** 982511. **L.P:** Gen. Mgr: A. A. Lopez. Film Buyer: Mrs. M. Logarta.
2) **Republic Broadc. System,** E. de los Santos Ave, Diliman, Quezon City.
3) **Associated Broadc. Corpo,** P.O. Box 2789, Manila.
4) **J.B. Pacquing,** Bancal St, Matina, Davao (station not yet on air — ch7).
5) **Clark Air Force Base,** Angeles City.
6) **Kanlaon Broadc. System,** Lopez Bldg, Aduana St, Intramuros, Manila (station not yet on air).
7) **R. Mindanao Network,** Ayala Ave, Sakati, Rizal (belongs to 10).
8) **Metropolitan Broadc. Co.** R. Center, Taft Ave, Manila.
9) **R. Philippines Netw,** 5th Floor, Cinerama Bldg, Manila.
10) **Inter-Island Broadc. Corpo,** Ayala Ave, Manila. **Te:** 888491. **Cable:** Interisland. **L.P:** Gen. Mgr: H. R. Canoy. Dir. Tec: M. Faustino. Film Buyer: Mrs. E. de la Fuente.
11) **Feati University,** Helios St, Sta. Cruz, Manila. **TV-sets:** 350000 (incl. 5000 colour sets).

RYUKYU ISLANDS

RYUKYUS BROADCASTING CORPORATION (Comm.)

Addr: CPO Box 4, Naha, Okinawa. **L.P:** See radio.
Stations: KSAR-TV chA12 120/24kW. **D.Prgr's:** 21.45-15.00 in Japenese and English.

OKINAWA TELEVISION BROADC. LTD. (Comm.)

Addr: 1-chome, Matsuyamacho, Naha, Okinawa. **L.P:** Gen. Mgr: Y. Ymashiro. Film Buyer: K. Asato.
Station: KSDW-TV chA10 47/23.5kW. **D.Prgr:** 03.00-15.00 in Japanese (incl. colour telecasting), English.

OKINAWA HOSO KYOKAI (O.H.K.)

Addr: 342 Majiboru, Sobe, Naha. **L.P:** Pres: C. Kabira. Dir. Tec: N. Shimoji.
Stations at Miyako, Fshigaki, Friomote, Yonagum and Naha — **TV sets:** 169.000.

SAUDI ARABIA

MINISTRY OF INFORMATION (Gov.)

Addr: Riyadh. **L.P:** See radio.
Stations (System B 625 lines): Jeddah chE10 2/0.5kW H, Riyadh chE5 10/2kW H, Mecca chE7 10/2kW H, Taif chE8 10/2kW H, Medina chE5 25/5kW H, Quassim chE8 40/5kW H.
D.Prgr: 6h daily (approx.) — **Projected:** Damman.

ARAMCO-TV (Non-comm, private Co.)

Addr: Box 1359, Dhahran. **Te:** 3061. **Cable:** Aramco.
L.P: Producer: S. A. Al-Mozaini. Asst. Producer: S. M. Kubeisy. Chief Eng: B. A. Biedenharn.
Stations: chA2 (Dhahran) 12/6kW, chA13 (Hofuf) 0.5/0.25kW. **D.Prgr:** Sat-Tues 4½ hrs, Wed and Fri 4½ hrs, Thurs 5½ hrs. Times vary with Sun. **Pub:** Weekly schedule — **TV sets:** 60.000.

SINGAPORE

TELEVISION SINGAPORE (Gov.)

Addr: P.O. Box 1902, Singapore. **L.P:** See radio.
Stations: Bukit Batok: chE5/chE8 80kW. **D.Prgr:** chE5: Mon-Fri 07.30-09.30, 10.30-16.00; Sat 05.30-16.30; Sun 02.30-16.00. chE8: 10.30 (Sat/Sun 09.30)-16.00.
TV sets: 116.456 — **ALF:** $36.00.

SOUTHERN YEMEN (People's Republic of)

SOUTH YEMEN TELEVISION SERVICE (Gov, Comm.)

Addr: Box 1264, Aden. **L.P:** Dir. Gen: Alawi Sakkaff. Eng: Hamed M. Ahmed. Prgr. Officer: M. A. Maddi.
Stations (625 lines): Al-Ainah chE4 0.1kW H, Al-Bargh chE10 0.1kW H, Ga'ar (Abyan) chE7 0.1kW H+2 satellites (Crater chE8 and Little Aden chE5).
D.Prgr: 15.00-19.30 — **TV sets:** 20.000.

SYRIAN ARAB REP.

SYRIAN ARAB TELEVISION (Gov, Comm.)

Addr: Ommayyad Square, Damascus. **Te:** 12000. **L.P:** Dir. of Prgr's: I. Sakr. **Stations:** Damascus chE5 150/30 kW, Homs chE7 30/6kW, Shikh Dahor chE9 180/36kW, Aleppo chE5 30/6kW, Saraukhiyah chE8 2.25/0.45kW.
D.Prgr: 16.00-22.00.
TV sets: 75.000 — **ALF:** Pounds 55,-

THAILAND

TELEVISION OF THAILAND (Gov.)

Addr: Public Rel. Dept, Bangkok. **L.P:** Mgr: P. Buranahetu. **Stations:** Chiang Mai (Lampang Prov.) ch8 10.7/2.1kW, Hadyai (Songkla Prov.) ch9 21/4.1kW, Khonkaen ch5 6/1.2kW. **D.Prgr's:** 12.00-16.00.

THAI TELEVISION CO. LTD. (Semi Gov, Comm.)

Addr: Mansion B. Rajdamnern Ave, Bangkok. **Te:** 817044. **Cable:** Thaitevi — **L.P:** Dir. Gen: Gen. K. Punnagunta. Dir. Tec: T. Meksawan. Man. Dir: W. Siwasariyanon. Film Buyer and Dir. and Prgrs: I. Kahchanaguha.
Stations: Bangkok chA4 29/14.5kW H.
Relay st's: Khonkaen chA5 33/16.5kW H, Lampang chA8 21.4/10.7kW H, Hadyai chA9 10.7/5.35kW H.
D.Prgr: Mon-Fri 03.00-03.30 (or 04.00), 10.00-17.00; Sat/Sun 03.00-17.00 — Color telecasting (PAL system) to start in the near future.

THE ARMY TELEVISION HSA-TV (Gov, Comm.)

Addr: Paholyotin Rd, Bangkok. **Te:** 70428. **Stations:** Bangkok chA7 15/3kW V (relay st: Saraburi chA5).
D.Prgr: 10.15-16.15. Sat also 01.00-06.00, Sun also 02.00-06.00 — **TV sets:** 221.000.

TURKEY

TURKISH RADIO TELEVISION CORPORATION

Addr: TRT-TV Mithat Pasa Cad. 47, Ankara. **L.P:** Dir. Tec: F. Isikçi. Dir. of Prgr's: M. T. Ongören. An education TV Training centre with full studio and other facilities is in operation in Ankara. The studio

is radio-linked to a tr. in the vicinity of Ankara. Experimental tr. for 3 days' a week (3 hrs. per day) on chE5 (Ankara) 6/3kW.
Projected st's: Adana chE4 (30kW), Ankara chE5 (100kW), Bursa chE2 (60kW), Istanbul chE5 (100kW), Izmir chE10 (100kW).

ISTANBUL TEKNIK UNIVERSITESI (Gov. Exp.)
Addr: Elektrik Fukültesi, Yüsek Frekans Teknigi Kürsüsü, Istanbul. **Te:** 482250. **L.P:** Prof. Dr. A. Ataman. **Station:** chE4 50kW H. **D.Prgr:** Fri 14.00-18.00 during the Academic Year.
TV sets: 35.000 — **ALF:** 100 TL ($11.00).

PACIFIC

AUSTRALIA (Commonwealth of)

Standards: Def: 625 — Picture Freq: 25 — ch width: 7MHz FM.

AUSTRALIAN BROADCASTING COMMISSION (ABC)

National Television is controlled by the Australian Broadcasting Commission, which is responsible to Parliament through the Postmaster General, whose department controls the transmitters.

Addr: Box 487, GPO, Sydney 2001 — **L.P:** See radio.
Stations: One each in Sydney (ABN), Melbourne (ABV), Brisbane (ABQ), Adelaide (ABS), Perth (ABW) and Hobart (ABT), Canberra (ABC). Operate on Australian ch2 on 63-70MHz 100/20kW exc. ABC Canberra ch3.
Pol: H exc. Canberra V.
ABHN Newcastle ch5, H — ABEV Bendigo ch1, V — ABRV Ballarat ch3, H — ABNT Launceston ch3, H — ABDQ Toowoomba ch3, H — ABWN Wollongng ch5, H — ABCN Orange ch1, V — ABLV Latrobe Valley ch4, H — ABGV Goulbourn Valley ch3, V — ABRQ Rockhampton ch3, H — ABRN Richmond Tweed ch6, H — ABTQ Townsville ch3, H — ABNS Pt. Pirie ch1, V — ABMN Wagga Wagga ch0, H — ABMQ Mackay ch4, H — ABAV Albury ch1, H — ABSW Bunbury ch5, H — ABDN Grafton-Kempsey ch2, H — ABSV Swan Hill ch2, V — ABWQ Maryborough ch6, V — ABUN Tamwort ch7, H — ABMV Mildura ch4, H — ABGS Mt. Gambier ch1, H — ABLN Broken Hill ch2, V — ABTN Taree ch1, V — ABCW Nartham ch4, H — ABGN Griffith ch7, H — ABSQ Warwick ch1, H — ABAW Albany ch2, V — ABNQ Cairns ch9, H — ABSN Bega-Cooma ch8, V — ABQN Bubbo ch5, V+24 low power translator st's.
D.Prgr's: Mon-Fri 23.00-13.00, Sat 02.00-13.00, Sun 00.20-12.30.
TV sets: 2.461.963 — **ALF:** A$14.00 (TV only). A$20.00 (radio and TV combined).

PRIVATELY OWNED COMMERCIAL TV STATIONS

Federation of Australian Commercial Television Stations, Suite 404-4th Floor, Caltex House, Sydney. **Te:** 27-8151. **Cable:** Telefed. **L.P:** Gen. Mgr: A. S. Cowan, Exec. Asst: A. B. Simpson. **Adv.** accepted under conditions of Australian Broadc. Control Board.
Stations: The first two letters are an abbreviation of the name of the license, the third indicates the state and the numeral signifies the channel.
All st's 100/20kW exc. 3) 50/10kW; 9) 50/10kW; 28) 50/10kW; 34) 10/20kW; 41) 5/1kW.
H=Horizontal Pol, V=Vertical Pol.

1) ATVO(H)	16) TVW7(H)	30) TCN9(H)
2) TVQO(H)	17) HSV7(H)	31) GVT9(H)
3) BTW3(H)	18) ATN7(H)	3) GSW9(V)*
4) NBN3(H)	19) BTQ7(H)	32) QTQ9(H)
5) RVN2(H)	20) CTC7(V)	33) TNT9(H)
6) VIN4(H)	21) RTQ7(H)	34) MTN9(H)
7) AMV4(H)	22) TNQ7(H)	35) NWS9(H)
8) SDQ4(H)*	40) ECN8(V)*	36) NEN9(H)
9) GTS4(V)	23) CBN8(V)	37) GLV10(H)
10) TVT6(H)	24) RTN8(H)	8) DDQ10(H)
11) BTV6(H)	25) BCV8(V)	38) TEN10(H)
12) BNK7(V)	26) WBQ8(V)	39) SAS10(H)
13) MVQ6	27) STV8(H)	40) NRN11(H)
14) GMV6(V)	28) SES8(H)	41) FNQ10(H)
23) CWN6(H)*	29) STW9(H)	*=relay st.
15) ADS7(H)		

1) **Austarama TV Pty. Ltd,** P.O. Box 42, Nunawading, Vic. 3131. **Te:** 2326211. **Cable:** Austarama. **L.P:** Gen. Mgr: M. J. Ryan. Dir. Tec: G. H. Dawey. Film Buyer: N. Carlyon. **D.Prgr:** 21.00-14.00 (Sun 21.00-13.30). **F.Pl:** Colour TV tr's (PAL-system).
2) **Universal Telecasters Qld. Ltd,** G.P.O. Box 751, Brisbane 4001. **Te:** 36-0366. **L.P:** Gen. Mgr: R. Archer. Dir. Tec: J. C. Stevenson. Film Buyer: R. C. Pennell. **D.Prgr:** 00.30 (Sat 23.30, Sun 02.00)-14.00.
3) **South Western Telecasters Ltd,** P.O. Box 112, Bunbury 6230. **Te:** 3531. **Cable:** Souwestel. **L.P:** Mgr. and Film Buyer: B. F. Hopwood. Dir. Tec: A. W. Stewart. **D.Prgr:** 09.15 (Sat/Sun 09.30)-14.00 (GSW9=Albany).
4) **Newcastle Broadc. & TV Corp. Ltd,** P.O. Box 55, Newcastle 2000. **Te:** 20321. **Cable:** Chantree. **L.P:** St. Mgr. and Film Buyer: K. W. Stone. Dir. Tec: H. J. McPhee. **D.Prgr:** Mon-Fri 20.50-23.00, 00.55-13.30; Sat 00.55-14.00; Sun 00.55-13.30.
5) **Riverina TV Ltd,** P.O. Box 69, Wagga Wagga 2650. **Te:** 2088. **Cable:** Rivtel. **L.P:** Mgr. and Film Buyer: W. P. Marsden. Dir. Tec: S. W. McDonald. **D.Prgr:** 06.00 (Wed 02.30, Sat/Sun 05.00)-13.00.
6) **TV Wollongong Transmissions Ltd,** P.O. Box 1800, Wollongong 2500. **Te:** 26444. **Cable:** Winteevee. **L.P:** Gen. Mgr. and Film Buyer: W. Lean. Dir. Tec: K. Roberts. **D.Prgr:** 02.00 (Sat/Sun 04.00)-13.15 (+1 satellite).
7) **Albury Upper Murray TV Ltd,** TV-Centre, Albury, N.S.W. 2640. **Te:** 251484. **Cable:** Ayemfour. **L.P:** Man. Dir: R. Kidd. Dir. Tec: T. Jones. **D.Prgr:** 06.00 (Tues, Wed 02.00)-12.30; Sat 07.00-12.30; Sun 06.30-12.30.
8) **Darling Downs TV Ltd,** P.O. Box 670, Toowoomba 4350. **Te:** 22288. **Cable:** Deedeeque. **L.P:** Gen. Mgr: S. J. Fitzpatrick. Dir. Tec: F. Balfour. Film Buyer: R. A. Fry. **D.Prgr:** 04.00-12.30 (Sat/Sun 06.30-13.00). (SDQ4 relay from Toowoomba).
9) **Spencer Gulf Telecasters Ltd,** P.O. Box 380, Port Pirie 5540. **Te:** 11. **L.P:** St. Mgr: B. Radford. Dir. Tec: E. Downing. **D.Prgr:** 08.30-13.00 (Wed 04.30-13.00).
10) **Tasmanian TV Ltd,** G.P.O. Box 1209M, Hobart 7008. **Te:** 80341. **Cable:** Tasteevee. **L.P:** Man. Dir: E. G. McRae. St. Mgr: D. L. Carter. **D.Prgr:** Mon-Thurs 03.00-13.30, Fri 05.30-13.30, Sat 22.00-13.30, Sun 01.30-13.30 (+5 satellites).
11) **Ballarat & Western Victoria TV Ltd,** P.O. Box 464, Ballarat 3350. **Te:** 21666. **Cable:** Beeteesix. **L.P:** Gen. Mgr. and Film Buyer: B. F. Jackson. Dir. Tec: B. G. Robertson. **D.Prgr:** 21.00-23.00, 06.30 (Tues/Wed 02.00)-13.30; Sat 06.45-14.15; Sun 01.30-13.00.
12) **Broken Hill TV Ltd,** P.O. Box 472, Broken Hill 2880. **Te:** 6013. **L.P:** St. Mgr: M. Hennesy. **D.Prgr:** 08.30-12.30; Wed 03.30-12.30.
13) **MacKay Television Development Pty. Ltd,** P.O. Box 496, MacKay 4740, Qld. **Te:** 6333. **Cable:** Emveeque. **L.P:** Man. Dir: M. E. Low. **D.Prgr:** 07.00 (Thurs 05.00)-12.00.
14) **Goulborn Murray TV Ltd,** P.O. Box 666, Shepparton 3630. **Te:** 215666. **Cable:** Geemveesix. **L.P:** Gen. Mgr: P. L. Twomey. Dir. Tec: A. Martin. Film Buyer: N. Eva. **D.Prgr:** Mon-Fri 20.30-23.00, 01.50-13.30; Sat 07.00-14.00; Sun 01.00-13.30 (+2 satellites).
15) **TV Broadcasters Ltd,** 125 Strangways Terrace, No. Adelaide 5006. **Te:** 6-8591. **Cable:** Adseven. **L.P:** Gen. Mgr: J. Fowler. Prgr. Mgr. and Film Buyer: L. Taylor. Dir. Tec: N. Sawyer. **D.Prgr:** 23.00-14.30.
16) **TVW Ltd,** P.O. Box 7, Tuart Hill, We. Australia 6060. **Te:** 491422. **Cable:** Teleview. **L.P:** St. Mgr: M. A. Bostock. Film Buyer: J. W. Cruthers, Dir. Tec: J. R. Quicke. **D.Prgr:** 02.30 (Sat 01.00, Sun 03.30)-16.00.
17) **Herald Sun TV Pty. Ltd,** G.P.O. Box 2150, Melbourne 3001. **Te:** 690771. **Cable:** Hertel. **L.P:** Mgr: K. S. Cairns. Dir. Tec: J. Fisher. **D.Prgr:** 22.30-14.00 (Sun 00.00-13.30).
18) **Amalgamated TV Services Pty. Ltd,** Television Centre, Epping, N.S.W 2121. **Te:** 850111. **Cable:** Telecentre. **L.P:** Gen. Mgr: J. H. Oswin. Dir. Tec: M. Stevenson. **D.Prgr:** 20.30-14.45 (Sat 21.00-14.00, Sun 23.30-14.00).
19) **Brisbane TV Ltd,** Sir S. Griffiths Drive, Mt. Cootha 4000. **Te:** 360111. **Cable:** Beeteeque. **L.P:** Gen. Mgr: E. Allen. Dir. Tec: G. Everingham. **D.Prgr:** 23.30 (Sat 22.30, Sun 01.30)-13.00 (Sat 13.30).
20) **Canberra TV Ltd,** P.O. Box 633, Canberra 2601. **Te:** 40255. **Cable:** Ceeteecee. **L.P:** Gen. Mgr: G. K. Barlin. Dir. Tec: D. J. Stewart. **D.Prgr:** 01.30-13.30 (approx).
21) **Rockhampton TV Ltd,** P.O. Box 568. Rockhampton 4700. **Te:** 84877. **Cable:** Arteeque. **L.P:** St. Mgr. and Film Buyer: B. Saunders. Dir Tec: C. Amoore. **D.Prgr:** 07.00 (Wed 04.00)-12.30.
22) **Telecasters No. Queensland Ltd,** P.O. Box 1016, Townsville 4810. **Te:** 716161. **Cable:** Teenq. **L.P:** Gen. Mgr. and Film Buyer: K. R. Christensen. Dir. Tec: R. MacBarton. **R.Prgr:** 06.00-12.00 (approx.).

23) **Country TV Services Ltd,** P.O. Box 465, Orange 2800. **Te:** 622288. **Cable:** Cebtes. **L.P:** Mgr: A. Ridley. Dir. Tec: E. Crouch. **D.Prgr:** 05.30 (Tues/Thurs 03.30)-12.30 (Sat 13.00); Sun 03.00-12.30.
24) **Richmond Tweed TV Ltd,** P.O. Box 423, Lismore 2480. **Te:** 2351. **Cable:** Richteevee. **L.P:** Man. Dir: L. T. Warrick. Dir. Tec: H. G. Green. Film Buyer: R. F. McLaren. **D.Prgr:** 03.00-12.30 (Sun 06.30-12.30).
25) **Bendigo & Co. Victoria Telecasters Ltd,** P.O. Box 240, Bendigo 2550. **Te:** 30584. **Cable:** Beneight. **L.P:** Gen. Mgr. and Film Buyer: F. A. McManus. Dir. Tec: A. J. Dear. **D.Prgr:** 02.00-14.00 (Sat 05.00-14.00) (+1 satellite).
26) **Wide Bay Burnett Television Ltd,** P.O. Box 30, Maryborough 4650. **Cable:** Wideteve. **L.P:** Gen. Mgr. and Film Buyer: F. T. Yates. Dir. Tec: B. Hunter. **D.Prgr:** 07.00-13.00.
27) **Sunraysia Television Ltd,** 18 Deakin Ave. Mildura, Vic. 3500. **Te:** 30204. **L.P:** Man. Dir: C. Lanyon. Dir. Tec: D. Carsin. **D.Prgr:** 07.15-12.30 (Sat/Sun 07.30-12.30).
28) **South East Telecasters Ltd,** Box 821, Mt. Gambier, So. Australia 5290. **Te:** 24117. **Cable:** Setel. **L.P:** Gen. Mgr, Film Buyer and Dir. Tec: J. B. Lewis. **D.Prgr:** 08.15 (Wed 04.30)-13.30.
29) **Swan Television Ltd,** P.O. Box 99, Tuart Hill 6060. **Te:** 491911. **Cable:** Swantel. **L.P:** Gen. Mgr: R. J. Mercer. Dir. Tec: T. Provan. Film Buyer: T. Warne. **D.Prgr:** 02.30 (Sat 22.45, Sun 03.30)-16.00.
30) **TV Corporation Ltd,** P.O. Box 27, Willoughby 2068. **Te:** 430444. **Cable:** Diffusion. **L.P:** Gen. Mgr: A. Baz. Dir. Tec: L. Free. **D.Prgr:** 20.00-14.00 (Sat 21.00-15.00, Sun 22.30-13.35).
31) **General TV Corporation Pty. Ltd,** P.O. Box 100, Richmond 3121. **Te:** 42-0201. **Cable:** Geeteevee. **L.P:** Gen. Mgr: N. Dick. St. Mgr: R. J. Biddle. Dir. Tec: T. O'Donohue. Film Buyer: I. G. Holmes. **D.Prgr:** 20.30-14.30 (Sun 02.30-14.00).
32) **Queensland TV Ltd,** G.P.O. Box 72A, Brisbane 4001. **Te:** 362233. **Cable:** Queteenine. **L.P:** Gen. Mgr: J. W. McKay. Dir. Tec: P. J. Marlan. Prgr. Mgr. and Film Buyer: H. K. Cornish. **D.Prgr:** 00.00 (Sat 20.45, Sun 01.00)-13.30.
33) **Northern Television (TNT9) Pty. Ltd,** P.O. Box 873, Launceston 7520. **Te:** 442551. **Cable:** Netnine. **L.P:** Man. Dir: A. E. Evans. St. Mgr: W. T. Freeman. Dir. Tec: K. Briggs. Film Buyer: B. England. **D.Prgr:** 03.00-13.30, Sun 01.30-13.00 (+6 satellites).
34) **Murrumbidgee TV Ltd,** Remembrance Driveway, Griffith 2680. **Te:** 1756. **L.P:** Gen. Mgr: W. Gamble. Dir. Tec: C. C. Lock. **D.Prgr:** 06.30-12.30 (approx.).
35) **Southern TV Corporation Ltd,** P.O. Box 9, No. Adelaide 5006. **Te:** 672322. **Cable:** Newsnine. **L.P:** Gen. Mgr: W. L. C. Davies. Dir. Tec: J. Batchelor. Film Buyer: R. G. Heading. **D.Prgr:** 21.30-14.30.
36) **TV New England Ltd,** P.O. Box 317, So. Tamworth 2340. **Te:** 657066. **Cable:** Nenine. **L.P:** Gen. Mgr: M. M. Moroney. St. Mgr. and Film Buyer: K. D. Smith. Dir. Tec: O. E. Bartle. **D.Prgr:** Mon-Fri 03.00-05.30, 07.00-13.00; Sat 07.00-13.00; Sun 03.00-13.00.
37) **V.B.N. Ltd,** P.O. Box 220, Traralgon 3844. **Te:** 71366. **L.P:** Gen. Mgr: D. W. Smith. Dir. Tec: H. Akkerman. **D.Prgr:** 07.00 (Sun 02.00)-13.00.
38) **United Telecasters Sydney Ltd,** P.O. Box 10, Lane Cove 2066. **L.P:** Gen. Mgr: L. Peard. Dir. Tec: R. Thyer. Film Buyer: R. T. Lord. **D.Prgr:** 20.00 (Sun 22.00)-14.00.
39) **South Australian Telecasters Ltd,** 45 Park Terrace, Gilberton 5081. **Te:** 656991. **Cable:** Sasten. **L.P:** Gen. Mgr. and Film Buyer: D. L. Hall. Dir. Tec: D. Caddy. **D.Prgr:** 21.30-00.30, 02.30-14.30 (Sat 21.30-14.30, Sun 23.30-14.30).
40) **Northern Rivers Television Ltd,** P.O. Box 400, Coffs Harbour 2450. **Te:** 1201. **Cable:** Enareleven. **L.P:** St. Mgr: J. W. McKenzie. Dir. Tec: B. J. Beasley. Film Buyer: J. L. Sheppard. **D.Prgr:** 05.00-13.00.
41) **Far Northern Television Ltd,** P.O. Box 596, Cairns 4870. **Te:** 512322. **Cable:** Efentee. **L.P:** St. Mgr. and Film Buyer: A. W. Webb. Dir. Tec: N. S. Judd. **D.Prgr:** 07.00 (Tues, Wed 04.00)-12.30 (or 12.00).

GUAM

KUAM TELEVISION (Comm.)
Addr: P.O. Box 368, Agana. **Cable:** Kuam. **L.P:** Pres: H. Scott Killgore. Exec. Vice-Pres: Wm. B. Nielsen. Vice-Pres. and Gen. Mgr: J. A. Klein. **Stations:** chA8, chA10 0.43/0.22kW V — **D.Prgr:** 07.30-14.00 (Sat 23.00-14.00). **TV sets:** 40.000.

Hawaii: (see U.S.A.)

NEW CALEDONIA

OFFICE DE RADIODIFF-TELEVISION FRANCAISE
Addr: B.P. 327, Noumea. **L.P:** See radio. **Stations:** (System K' 625 lines): 0.5kW: chK'4, chK'6, chK'8. **D.Prgr:** W 08.00-11.00; Sun 06.00-11-15. **TV sets:** 6.000.

NEW ZEALAND

NEW ZEALAND BROADCASTING CORPORATION (Statutory Public Body)
Addr: P.O. Box 98, Wellington. **Te:** 48200. **Cable:** Broadserv. **L.P:** See radio.
Stations: Auckland AKTV ch2 100/20kW H, Wellington WNTV ch1 100/20kW H, Christchurch CHTV ch2 100/20kW H, Dunedin DNTV ch2 50/10kW H+two 100kW repeaters and 32 low powered repeaters.
D.Prgr: 02.00-11.00 (Fri, Sat 12.00). **F.Pl:** Additional low powered repeaters. **Fi:** By license payments and adv. revenue Tues, Wed, Thurs, Sat.
TV sets: 610.059 — **ALF:** NZ $13.00.

SAMOA (American)

TELEVISION OF SAMOA (Gov.)
Addr: Dept. of Education, Pago Pago. **Te:** 2438. **L.P:** Mgr: V. W. Williams. Dir. Tec: R. Ware. **Stations:** chA2/A4/A5/A8/A10/A12 (ch2 40kW, ch4 and 5 100kW). Satellites: chA7/A11 0.01kW H. **D.Prgr:** 18.30-09.30 (Sat 17.30-09.00) — **TV sets:** 2.000.

TAHITI

OFFICE DE RADIODIFF-TELEVISION FRANCAISE
Addr: B.P. 125, Papeete. **L.P:** See radio. **Stations:** (System K'625 lines): Pic Rouge chK'4 0.05kW, Punaruu chK'5 3W, Papeete chK'6 0.05kW, Tataa chK'8 0.05kW. **D.Prgr:** 04.30-07.30 — **TV sets:** 5.500.

TRUST TERRITORY OF THE PACIFIC (Micronesia)

MICRONESIA BROADC. CORPO. (Comm.)
Addr: Royal Taga Hotel, Saipan, MI. **L.P:** Pres: H. Scott Killgore. Vice Pres and Gen. Mgr: James A. Klein. **Stations:** WSZE-TV ch8 0.4kW, WSZF ch10 0.02kW. **D.Prgr:** 08.00-13.00 — **TV sets:** 1400.

NORTH AMERICA

BERMUDA

BERMUDA RADIO AND TELEVISION CO. LTD. (Comm.)
Addr: Box 452, Hamilton. **L.P:** Gen. Mgr: Q. Edness. **Station** (System RCA): ZBM-TV chA10 16/4kW H. **D.Prgr:** 20.00-03.15 (Thurs, Fri, Sat 04.30).

CAPITAL BROADCASTING CO. LTD.
Addr: Box 652, Hamilton. **Te:** 2-4444. **Cable:** Capbro. **L.P:** See radio. **Station:** ZFB-TV chA8 5kW H. **D.Prgr:** W 18.30-04.00 (Sat 13.00-17.00 and 19.30-04.00); Sun 19.30-03.30 — **TV sets:** 17.000.

CANADA

CANADIAN BROADCASTING CORPORATION (Publicly owned)
Addr: Head Office: P.O. Box 478, Terminal "A", Ottawa. English Network Division: P.O. Box 500, Terminal "A", Toronto 116. French Network Division: P.O. Box 6000, Montreal.
English Network (Toronto): E. S. Hallman, Vice-Pres. and Gen. Mgr, Network Broadc; M. L. Munro, Asst. Gen. Mgr. (TV); K. Nash, Dir. Inf. Prgr. (Radio-TV); J. T. Nixon, Dir. of Entertainment; N. Garriock. Dir. TV Network Planning; G. H. Jones, Divisional Engineer; A. H. Partridge (Ag), Divisional Head, Foreign Relations and Export Sales.
French Network (Montreal): R. David, Vice-Pres. and Gen. Mgr, Network Broadc; J. Landry, Dir. of TV; M. Morais, Divisional Engineer; L. Hébert. Sup. Overseas and Foreign Rel.
STATIONS: Pol: H — Def: 525.

English Network:	Call	chA	kW(ERP)
St. John's, Nfld.	CBNT	8	196/39.2
Corner Brook, Nfld.	CBYT	5	10.6/2.12
Goose Bay, Lab.	CFLA-TV	†8	0.87/0.435

English Network:	Call	chA	kW(ERP)
Charlottetown, PEI.	CBCT	13	38.6/19.3
Halifax, NS.	CBHT	3	56/8.4
Montreal, Que.	CBMT	6	100/15
Ottawa, Ont.	CBOT	4	100/15
Toronto, Ont.*	CBLT	6	99.5/9.95
Winnipeg, Man.	CBWT	6	100/12
Edmonton, Alta*	CBXT	5	318/34.3
Vancouver, BC.*	CBUT	2	47.6/7.6

+68 CBC owned relay and rebroadc. st's and "frontier coverage packages" (limited videotape service for isolated communities).
+151 privately owned affiliated and broadcasting st's.
*) Carry a few hours of French programming weekly.
†) Serviced by recordings.

French Network:	Call	chA	kW(ERP)
Moncton, NB.	CBAFT	11	163/33
Montreal, Que.	CBFT	2	100/10
Quebec, Que.	CBVT	11	173/34.6
Ottawa, Ont.	CBOFT	9	128/25.6
Winnipeg, Man.	CBWFT	*3	59/7.37

+13 CBC owned relay and rebroadc. st's and "frontier coverage packages" (limited videotape service for isolated communities) — +42 privately owned affiliated and rebroadc. st's — *) Serviced by recordings.

PRIVATELY OWNED COMMERCIAL TV STATIONS

Rebroadc. st's and st's less 3kW not mentioned.

Call	chA	kW	Call	chA	kW
1)CHBC-TV	2*	3.7/0.46	34)CKRD-TV	6*	13.2/6.6
2)CHCT-TV	2*	100/50	35)CHEK-TV	6*	100/50
3)CJIC-TV	2*	28/15	36)CJON-TV	6*	62/33
4)CKCK-TV	2*	100/53.5	37)CJPM-TV	6*	61/36.5
5)CKCW-TV	2*	25/15	38)CHSS-TV	6*	11/1.8
6)CKPR-TV	2*	100/25	39)CFSS-TV	7*	19/10
7)CKSA-TV	2*	116/23.2	40)CHLT-TV	7*	170/100
8)CFTK-TV	3	4.1/2.1	41)CJAY-TV	7*	325/65
9)CFRN-TV	3*	180.3/ 90.43	42)CJLH-TV	7	96.1/ 19.2
10)CJBR-TV	3*	49.3/28	43)CKMJ-TV	7*	55.4/ 27.7
11)CJOX-TV	3	6.7/3.4			
12)CKOS-TV	3*	15/2.6	44)CKRT-TV	7*	49/24.5
13)CKVR-TV	3*	100/12.5	45)CFQC-TV	8*	180/27
14)CFCM-TV	4*	100/15	46)CHAN-TV	8*	164/81
15)CFCN-TV	4*	100/50	47)CKNX-TV	8*	90/55
16)CFCR-TV	4*	3.7/1.85	48)CKSS-TV	8*	120/12
17)CHAB-TV	4*	48/25	49)CJSS-TV	8*	130/78
18)CHSJ-TV	4*	100/14.4	50)CFTO-TV	9*	325/162
19)CJCB-TV	4*	100/60	51)CHRE-TV	9*	140/75
20)CJCN-TV	4	26/13	52)CKBL-TV	9	303/153
21)CKBI-TV	4	3/1.6	53)CKLW-TV	9*	178/35.6
22)CKRN-TV	4	115/57.5	54)CFCH-TV	10*	119/61
23)CHAU-TV	5	52.5/26.25	55)CFPL-TV	10*	325/195
24)CHOV-TV	5	19.1/9.5	56)CFTM-TV	10*	325/160
25)CJCH-TV	5*	52.8/ 26.4	57)CHCH-TV	11*	230/23
			58)CKWS-TV	11*	130/78
26)CJDC-TV	5	5/0.75	59)CFCF-TV	12*	325/180
27)CJFB-TV	5*	13.3/ 6.65	60)CHEX-TV	12*	139/83.4
			61)CKAM-TV	12*	141/77
28)CKBI-TV	5	61/12.2	62)CKRS-TV	12*	20/10
29)CKMI-TV	5*	13.85/ 6.78	63)CFCY-TV	13	38.6/ 19.3
30)CKSO-TV	5*	100/14.4	64)CJOH-TV	13*	178/35.6
31)CKX-TV	5*	54/27	65)CKCO-TV	13*	325/65
32)CFCL-TV	6*	100/50	66)CKTM-TV	13*	162.5/ 81.2
33)CHAT-TV	6*	5.7/3			

Stations marked * telecast also prpr's in colour.

1) **Okanagan Valley Television Co. Ltd,** 342 Leon Ave, Kelowna, B.C. **L.P:** St. Mgr: R. G. Shapman. Dir. Tec: T. E. Wyatt. Film Buyer: R. Richardson. **D.Prgr:** 17.00-09.30 (+ 8 satellites).

2) **Calgary TV Ltd,** 955 Rideau Rd, Calgary 6, Alta. **L.P:** Gen. Mgr: D. Penn. Dir. Tec: B. McCambly. Film Buyer: W. Wilks. **D.Prgr:** 14.30 (Sun 15.30)-08.30 + 2 satellites).

3) **Hyland Radio-TV Ltd,** 119 East St, Sault Ste Marie, Ont. **L.P:** St. Mgr: F. J. Gardi. Dir. Tec: S. Corbet. **D.Prgr:** 14.00-06.00.

4) **CKCK-Television,** Box 2000, Regina, Sask. **Te:** 523-6671. **L.P:** St. Mgr: J. K. Struthers. Dir. Tec: L. McBride. Film Buyer: L. Westmoreland. **D.Prgr:** 17.00-08.30 (+ 2 satellites).

5) **Moncton Broadc. Ltd,** 191 Halifax St, Moncton, NB. **Te:** (506)855-1220. **L.P:** Pres: F. A. Lynds, St. Mgr: F. Irvine. Dir. Tec: K. B. MacConnell. **D.Prgr:** 12.00-04.00.

6) **Thunder Bay Electronics Ltd,** 87 No. Hill St, Port Arthur, Ont. **Te:** 344-9685. **L.P:** St. Mgr. & Film Buyer: G. N. Conger. Dir. Tec: G. Buetow. **D.Prgr:** 13.30-06.30.

7) **CKSA-TV Ltd,** 5026-50th St, Lloydminster, Alta (+ 2 satellites).

8) **Skeena Broadcasters Ltd,** Terrace, B.C. (+ 10 satellites).

9) **Sunwapta Broadc. Co. Ltd,** P.O. Box 5030, Postal St. E, Edmonton, Alta. **L.P:** St. Mgr: B. D. Alloway. Dir. Tec: T. E. Wadson. Film Buyer: G. T. Kidd. **D.Prgr:** 13.30-07.00 (+ 3 satellites).

10) **La Radio du Bas St. Laurent Inc,** 13 St. Jean Baptiste, Rimouski, Que (+ 1 satellite).

11) **Newfoundland Broadc. Co. Ltd,** Argentia, Nfld. (+ 2 satellites).

12) **Yorkton TV Co. Ltd,** 95 East Broadway, Yorkton, Sask. **L.P:** Gen. Mgr. & Film Buyer; G. S. Skinner. **D.Prgr:** Mon-Fri 13.30-08.00, Sat/Sun 19.00-08.00.

13 **Ralph Snelgrove TV Ltd,** Box 519, Barrie, Ont. **L.P:** St. Mgr: R. T. Snelgrove. Dir. Tec: B. Verwey. Film Buyer: J. Mattenley. **D.Prgr:** 14.00-06.30 (+ 3 satellites).

14) **Television du Quebec (Canada) Ltée,** P.O. Box 2026, Quebec 2, Que. **L.P:** Gen. Mgr: J. A. Pouliot. Dir. Tec: G. Fortin. Film Buyer: G. Lovett. **D.Prgr:** ch4 12.00 (Sat/Sun 14.00)-06.30 (French), ch5 14.30 (Sat/Sun 17.00)-06.30 (English).

15) **CFCN-TV Ltd,** Broadc. House, Calgary 2, Alta. **L.P:** St. Mgr: E. W. Chapman. Film Buyer: G. Dafoe. **D.Prgr:** 14.00-08.00 (+9 satellites).

16) **Twin Cities Television Ltd,** 460 Pemberton Terrace, Kamloops, B.C. **L.P:** St. Mgr. & Film Buyer: F. Coventry. **D.Prgr:** 18.00-09.30 (+ 17 satellites).

17) **CHAB Ltd,** 127 Main St. N, Moose Jaw, Sask. **L.P:** Gen. Mgr. & Film Buyer: S. Boyling. Dir. Tec: M. Pickford. **D.Prgr:** 17.00-07.30. (+ 1 satellite).

18) **New Brunswick Broadc. Ltd,** 14 Church St, Saint Johns, N.B. (+ 1 satellite).

19) **Cape Breton Broadc. Ltd,** 318 Charlotte St, Sydney, N.S. **D.Prgr:** 16.00-04.00 (+ 2 satellites).

20) **Newfoundland Broadc. Co. Ltd,** Prince of Wales St, St. Johns, Nfld. **L.P:** St. Mgr: C. Jamieson. Dir. Tec: O. Hierlihy. **D.Prgr:** 13.30-05.00 (+ 1 satellite).

21) (see 28).

22) **R.Nord Inc,** 70 rue Gamble, Rouyn, Que. (+ 4 satellites).

23) **Television de la Baie des Chaleurs Inc,** P.O. Box 100, Carleton, Que. **L.P:** St. Mgr. & Dir. Tec: M. Chabot. **D.Prgr:** 15.00-07.00 (+ 9 satellites).

24) **Ottawa Valley TV Co. Ltd,** 319 Pembroke St. East, Pembroke, Ont. **D.Prgr:** 15.00-05.40.

25) **CJCH Ltd,** 2885 Robbie St, Halifax, N.S. **D.Prgr:** Mon-Fri 14-30-05.00, Sat 17.00-07.00, Sun 17.00-05.30 (+ 3 satellites).

26) **R. St, CJDC,** Dawson Creek, B.C. (+ 2 satellites).

27) **Swift Current Telecasting Co. Ltd,** Swift Current, Sask. (+ 3 satellites).

28) **Central Broadc. Co. Ltd,** 10th St, Prince Albert, Sask. (+ 5 satellites).

29) (see 14).

30) **Cambrian Broadc. Ltd,** 336 Ash St, Sudbury, Ont. **D.Prgr:** 13.00-07.00 (+ 1 satellite).

31) **Western Manitoba Broadcasters Ltd,** 2940 Victoria Ave, Brandon, Man. (+ 2 satellites).

32) **CFCL-TV,** P.O. Box 620, Timmins, Ont. **L.P:** Pres: J. Conrad Lavigne. Dir. Tec: R. A. Fateux. Film Buyer: T. Coles. **D.Prgr:** 14.00-06.30 (+ 5 satellites).

33) **Monarch Broadc. Co. Ltd,** Box 760, Medicine Hat, Alta. **L.P:** St. Mgr: F. G. Gunter. Dir. Tec: S. Gaffney. **D.Prgr:** 17.00-08.30 (+ 1 satellite).

34) **CHCA-TV Ltd,** Box 668, Red Deer, Alta. **L.P:** St. Mgr: W. Wilks. Dir. Tec: J. Colter. **D.Prgr:** 15.30-07.30 (+ 2 satellites).

35) **CHEK TV Ltd,** 3693 Epsom Dr, Victoria, B.C.

36) belongs to 20. **D.Prgr:** 12.00-05.00 (+ 2 satellites).

37) **CJPM-TV Inc,** P.O. Box 600, Chicoutimi, Que. **L.P:** Dir: P. J. Audette. Dir. Tec: R. Hudon. Film Buyer: C. Blain. **D.Prgr:** 17.00-05.00.

38) **Yorkton Television Co. Ltd,** 95 East Broadway, Yorkton, Sask.

39) (belongs to 38).

40) **R. Television Sherbrooke, Inc,** 3330 King St. W, Sherbrooke, Que. **L.P:** St. Mgr: P. Bruneau. Dir. Tec: R. Thieboult. Film Buyer: J. L. Gauthier. **D.Prgr:** 13.30-07.00.

41) **Ch 7 TV Ltd,** Polo Park, Winnipeg 10, Man. **L.P:** St. Mgr: J. M. Davidson. Dir. Tec: B. Cobb. Film Buyer: J. S. Purvis. **D.Prgr:** 14.00-07.30.

42) **Lethbridge TV Ltd,** P.O. Box 1120, Lethbridge, Alta. **L.P:** Gen. Mgr: N. Botterill. **D.Prgr:** 17.00-07.30 (Approx.) (+ 3 satellites).

43) **Trans-Canada Communication Ltd,** Marquis, Sask.

44) **CKRT-TV Ltd,** 1 Christophe Colomb, Rivière du Loup, Que. **L.P:** St. Mgr: L. Simard. Dir. Tec: G. Gelinas. Film Buyer: G. Thibault. **D.Prgr:** 14.30-06.00 (+ 4 satellites).
45) **CFQC TV Ltd,** 216 First Ave North, Saskatoon, Sask. **D.Prgr:** 15.00-08.00 (+ 1 satellite).
46) **British Columbia TV Broadc. System Ltd,** Burnaby, B.C. (+ 4 satellites).
47) **R. St. CKNX Ltd,** Cnr. Carling Terrace, Wingham, Ont. **D.Prgr:** 17.00-06.30.
48) **Yorkton TV Co. Ltd,** 95 East Broadway, Yorkton, Sask. (Rebroadcasting the prgrs. of St. 63).
49) **Cornwall Broadc. Ltd,** Cornwall, Ont.
50) **Baton Broadc. Ltd,** 1550 McCowan Rd, Agincourt (Toronto), Ont.
51) **CHAB Ltd,** Johnstone Bldg, Moose Jaw, Sask.
52) **La Compagnie de Radiodiff. de Matane Ltd,** 155 St. Sacrament St, Matane, Que. **L.P:** Gen. Mgr: R. Lapointe. Dir. Tec: Y. Fortier. Film Buyer: O. Lapointe. **D.Prgr:** 15.00-07.05 (+ 6 satellites).
53) **Western Ontario Broadc. Co. Ltd,** 825 Riverside Dr. West, Windsor, Ont.
54) **Tel-Ad Co. Ltd,** Callander, Ont (+ 1 satellite).
55) **London Free Press Printing Co. Ltd,** P.O. Box 2880, Terminal "A", London, Ont. **L.P:** St. Mgr: M. T. Brown. Dir. Tec: G. A. Robitaille. Film Buyer: R. H. White. **D.Prgr:** 13.30-06.30.
56) **Télé-Metropole Corpo,** 1405 Maisonneuve St. Montreal. **L.P:** St. Mgr: R. Giguere. Dir. Tec: M. Doucet. Film Buyer: M. Bastien. **D.Prgr:** 13.00-06.00.
57) **Niagara TV Ltd,** 163 Jackson St, Hamilton, Ont. **L.P:** St. Mgr: S. J. Bibby. Dir. Tec: W. E. Jeynes. Film Buyer: S. Hebscher. **D.Prgr:** 11.30-05.00.
58) **Frontenac Broadc. Co. Ltd,** 170 Queen St, Kingston, Ont. **L.P:** Gen. Mgr: R. Hofstetter. Film Buyer: D. Lawrie. **D.Prgr:** 14.00-06.30.
59) **Canadian Marconi Co,** 405 Ogilvy Ave, Montreal 15. **L.P:** Gen. Mgr: D. W. G. Martz. Dir. Tec: J. E. Thompson. **D.Prgr:** 13.00-07.00. (June-Sept: 16.00-07.00).
60) **Kawartha Broadc. Co. Ltd,** P.O. Box 659, Peterborough, Ont. **L.P:** St. Mgr: W. Rewegan. Dir. Tec: B. Wilke. Film Buyer: G. Shale. **D.Prgr:** 14.00-06.30 (+ 2 satellites).
61) **Moncton Broadc. Ltd,** Moncton, N.B. (+ 1 satellite).
62) **R. Saguenay Ltd,** 179 Sir Wilfrid Laurier, Jonquière, Que. **L.P:** St. Mgr: G. Lemieux. Dir. Tec: P. Gilbert. Film Buyer: E. Michaud. **D.Prgr:** (French): 14.00-06.00 (+ 3 satellites).
63) **The Island R. Broadc. Co. Ltd,** 85 Kent St, Charlottetown, PEI. **L.P:** St. Mgr: R. F. Large. **D.Prgr:** 18.00-04.15 (+ 1 satellite).
64) **Bushnell TV Co. Ltd,** 1500 Merivale Rd, Ottawa 5. **L.P:** Gen. Mgr: S. W. Griffiths. Dir. Tec: A. G. Day. St. Mgr. & Film Buyer: P. Francis. **D.Prgr:** 12.30-06.00.
65) **Central Ontario TV Ltd,** 864 King St, Kitchener, Ont. **L.P:** Gen. Mgr: W. D. McGregor. Dir. Tec: P. Turean. Film Buyer: B. Lawson. **D.Prgr:** 13.00-07.00.
66) **TV St. Maurice Inc,** P.O. Box 277, Trois Rivières, Que. **L.P:** St. Mgr: R. Bonneau. Dir. Tec: G. Nadeau. Film Buyer: A. Aubichon. **D.Prgr:** 14.00-06.00 (in French) — **TV sets:** 9.000.000.

ST. PIERRE ET MIQUELON

OFFICE DE RADIODIFF. TELEVISION FRANCAISE

Addr: B.P. 7, St. Pierre et Miquelon. **L.P:** See radio. **Station** (system K' 625 lines): chK'4 0.05kW H. **D.Prgr:** 22.00-01.30 (exc. Mon) — **TV sets:** 1.100.

U.S.A.

PRIVATE COMMERCIAL TELEVISION STATIONS

ALABAMA

WAPI-TV (Ch 13), Box 1310, Birmingham 35201; Donald D. Wear, V.P. & Gen. Mgr.
WBMG-TV (Ch 42), P.O. Box 6146, Birmingham 35209; Hugh M. Smith, Exec. V.P. & Gen. Mgr.
WBRC-TV (Ch 6), Box 389, Birmingham 35201; R. T. Schlinkert, V.P. & Gen. Mgr.
WMSL-TV (Ch 48), Mutual Savings Life Bldg., Decatur 35601; Frank Whisenant, Pres, Gen. Mgr. & Film Buyer.
WTVY-TV (Ch 4), Box 1089, Dothan 36301; F. E. Busby, Pres. & Gen. Mgr.
WOWL-TV (Ch 15), Box 2220, Florence 35630; Richard B. Biddle, Pres. & Gen. Mgr.
WAAY-TV (Ch 31), 1000 Monte Sano Blvd. S.E., Huntsville 35801; Dan Whitsett, Vice Pres. & Sales Mgr.
WHNT-TV (Ch 19), 960 Monte Sano Blvd. Huntsville 35804; Charles F. Grisham, Pres.
WALA-TV (Ch 10), 210 Government St, Mobile 36602; H. Ray McGuire, Exec. V.P. & Gen. Mgr.
WKRG-TV (Ch 5), Box 2367, Mobile 36601; C. P. Persons Jr, Exec. V.P, Gen. Mgr. & Film Buyer.
WCOV-TV (Ch 20), Box 2505, Montgomery 36105; Frank Ragsdale, Exec. V.P. & Gen. Mgr.
WSFA-TV (Ch 12), Box 2566, Montgomery 36105; Robert Villar, Gen. Mgr.
WKAB-TV (Ch 32), Box 3236, Montgomery 36109; Don Neil, Gen. Mgr.
WSLA-TV (Ch 8), Box 1016, Selma 36701; Cyril G. Brennan, Gen. Mgr.
WCFT-TV (Ch 33), Box 2427, Tuscaloosa 35402; Charles Williamson, Gen. Mgr.

ALASKA

KENI-TV (Ch 2), 4th Ave, Theatre Bldg, Anchorage 99501; Alvin O. Bramstedt, Pres. & Gen. Mgr.
KTVA-TV (Ch 11), Box 2200, Anchorage 99501; A. G. Hiebert, Pres.
KFAR-TV (Ch 2), P.O. Box 910, Fairbanks 99701; Don Andon, St. Mgr.
KTVF-TV (Ch 11), 3rd & Lacey Sts, Fairbanks 99701; John Griffin, St. Mgr.
KINY-TV (Ch 8), 231 S. Franklin St, Juneau 99801; Bill Walley, Gen. Mgr.
KIFW-TV (Ch 13), Box 299, Sitka 99835; Roy Paschal, Pres, Gen. Mgr. & Film Buyer.
KHAR-TV (Ch 13), Pouch 7016, Anchorage 99501.

ARIZONA

KOOL-TV (Ch 10), 511 West Adams St, Phoenix 85003; Homer Lane, V.P. & Gen. Mgr.
KPHO-TV (Ch 5), 631 N. First Ave, Phoenix 85003; Kenneth W. Headly, Gen. Mgr.
KTAR-TV (Ch 12), 1101 N. Central Ave, Phoenix 85001; Richard Lewis, Chmn. of the board.
KTVK-TV (Ch 3), 3435 N. 16th St, Phoenix 85016; Burton La Dow, Gen. Mgr.
KGUN-TV (Ch 9), 2175 N. Sixth Ave, Tucson 85703; Fred Vance, St. Mgr.
KOLD-TV (Ch 13), 115 W. Drachman St, Tucson 85705; Paul Piunkett, V.P. & Gen. Mgr.
KVOA-TV (Ch 4), 209 W. Elm St, Tucson 85703; Gordon Hamilton, Gen. Mgr. Sales Mgr. & Film Buyer.
KBLU-TV (Ch 13), 1322 Fourth Ave, Yuma 85364; Robert Crites, Pres. & Gen. Mgr.
KIVA-TV (Ch 11), P.O. Box 1671, Yuma 85364; Leavenworth Wheeler, Gen. Mgr. & Film Buyer.
KZAZ-TV (Ch 11), 134 Grand Ave, Nogales 85621 (sta. also serves Tucson); A. H. (Chris) Christensen, Gen. Mgr.

ARKANSAS

KTVE-TV (Ch 10), P.O. Box 791, El Dorado 71731; James T. Hite, Exec. V.P. & Gen. Mgr.
KFSA-TV (Ch 5), 101 N. Fourth St, Ft. Smith 72901; John Whitt, V.P. Gen. Mgr, Sales Mgr. & Film Buyer.
KAIT-TV (Ch 8), Box 790, Jonesboro 72402; George Hernreich, Exec. Dir.
KARK-TV (Ch 4), 1001 Spring St, Little Rock 72203; Rob. L. Brown, V.P. & Gen. Mgr.
KATV-TV (Ch 7), 310 W. Third St, Little Rock 72201; Robert Doubleday, V.P. & Gen. Mgr.
KTHV-TV (Ch 11), Box 269, Little Rock 72203; B. G. Robertson, V.P. & Gen. Mgr.

CALIFORNIA

KERO-TV (Ch 23), 321-21st St, Bakersfield 93305; Kenneth R. Croes, V.P. & Gen. Mgr.
KBAK-TV (Ch 29), 2210 Chester Ave, Bakersfield 93301; Burt I. Harris, Pres. & Film Buyer.
KLYD-TV (Ch 17), 2831 Eye St, Bakersfield 93301; Edwin C. Metcalfe, V.P. & Gen. Mgr.
KNBC-TV (Ch 4), 3000 W. Alameda, Burbank 91503; Robert Howard, V.P. & Gen. Mgr.
KSHL-TV (Ch 12), Box 489, Chico 95927; M. F. Woodling, Mgr.
KIEM-TV (Ch 3), Box 1021, Eureka 95501; Paul Hoff, V.P. & Gen. Mgr.
KVIQ-TV (Ch 6), Box 1019, Eureka 95502; Ray Grant, Gen. Mgr.
KAIL-TV (Ch 53), Box 5160, Fresno 93755; Victor D. Sanders, Gen. Mgr.
KFRE-TV (Ch 30), 733 L. St, Fresno 93721; Gay Sondheim, Gen. Mgr.
KICU-TV (Ch 43), 1141 Market St, Fresno 94103; Norwood J. Patterson, Pres.

KJEO-TV (Ch 47), Box 1708, Fresno 93717; Joseph C. Drilling, Vice Pres. & Gen. Mgr.
KMJ-TV (Ch 24), 1544 Van Ness, Fresno 93721; John I. Edwards, Mgr. & Film Buyer.
KABC-TV (Ch 7), Prospect & Talmadge Sts, Hollywood 90027; John E. Campbell, V.P.
KCOP-TV (Ch 13), 915 N. LaBrea Ave, Hollywood 90038; John Hopkins, Pres.
KHJ-TV (Ch 9), 5515 Melrose Ave, Los Angeles 90038; Wally Sherwin, Gen. Mgr.
KMEX-TV (Ch 34), 721 N. Bronson Ave, Hollywood 90038; Julian Kaufman, V.P.
KNXT-TV (Ch 2), 6121 Sunset Blvd, Los Angeles 90028; Ray L. Beindorf, V.P. & Gen. Mgr.
KTTV-TV (Ch 11), 5746 Sunset Blvd, Los Angeles 90028; Charles D. Young, V.P. & Gen. Mgr.
KWHY-TV (Ch 22), 5565 Sunset Blvd, Los Angeles 90028; William H. Morlence, St. Mgr.
KTLA-TV (Ch 5), 5800 Sunset Blvd, Hollywood 90028; Doug. Finley, Gen. Mgr. & V.P.
KTVU-TV (Ch 2), 1 Jack London Square, Oakland 94607; Roger D. Rice, V.P. & Gen. Mgr.
KRCR-TV (Ch 7), 2770 Pioneer Dr, Redding 96001; Richard Green, Gen. Mgr.
KCRA-TV (Ch 3), 310 Tenth St, Sacramento 95814; Jon S. Kelly, Gen. Mgr. & Partner.
KXTV-TV (Ch 10), 400 Broadway Ave, Sacramento 95818; Joseph E. Lake, V.P. & Gen. Mgr.
KSBW-TV (Ch 8), Box 1651, Salinas 93901; John C. Cohan, Pres.
KFMB-TV (Ch 8), Fifth & Ash St, San Diego 92101; George Whitney, V.P. & Gen. Mgr.
KOGO-TV (Ch 10), Box 628, San Diego 92112; Clayton H. Brace, V.P. & Gen. Mgr.
KGO-TV (Ch 7), 277 Golden Gate Ave, San Francisco 94102; Davis M. Sacks, V.P. & Gen. Mgr.
KPIX-TV (Ch 5), 2655 Van Ness, San Francisco 94109; Richard H. Harris, Gen. Mgr.
KRON-TV (Ch 4), 1001 Van Ness Ave, San Francisco 94119; A. H. Constant, V.P. & Gen. Mgr.
KNTV-TV (Ch 11), 645 Park Ave, San Jose 95110; Robert Hosfeldt, Gen. Mgr, Prgr. Dir. & Film Buyer.
KEYT-TV (Ch 3), P.O. Box "X", Santa Barbara 93102; Leslie H. Norins, V.P. & Gen. Mgr.
KCOY-TV (Ch 12), 1503 N. McClelland, Santa Maria 93454; Earl Morgemoth, V.P. & Gen. Mgr.
KOVR-TV (Ch 13), 225 E. Miner Ave, Stockton 95202; Ramsey Elliott, Mgr.
KLXA-TV (Ch 40), 816 N. Highland Ave, Hollywood 90038; Alma C. Maler, V.P.
KNEV-TV (Ch 32), 1011 Bryant St, San Francisco 94103; Graham Moore, V.P. & Gen. Mgr.
KSBY-TV (Ch 6), Box 1368, San Luis Obispo 93402; Art Hapgood, St. Mgr.

COLORADO

KKTV-TV (Ch 11), Colorado Springs 80901; George W. Jeffrey, V.P. & Gen. Mgr.
KRDO-TV (Ch 13), 399 S. Eighth St, Colorado Springs 80905; Harry W. Hoth, Jr. Pres.
KBTV-TV (Ch 9), 1089 Bannock St, Denver 80212; Alvin Flanagan, Exec. V.P. & Gen. Mgr.
KLZ-TV (Ch 7), 131 Spear St, Denver 80217; Hugh B. Terry, Pres. & Gen. Mgr.
KOA-TV (Ch 4), 1044 Lincoln St, Denver 80217; Robert L. Maynard, Pres. & Gen. Mgr.
KWGN-TV (Ch 2), 550 Lincoln St, Denver 80203; Richard E. Jungers, V.P. & Gen. Mgr.
KREX-TV (Ch 5), Box 789, Grand Junction 81502; Frank Palmer, Pres. & Gen. Mgr.
KOAA-TV (Ch 5), P.O. Box 876, Pueblo 81002; James Croll, St. Mgr.
KREZ-TV (Ch 6), Box 789, Grand Junction 81502; Frank Palmer, Pres. & Gen. Mgr.
KREY-TV (Ch 10), 610 N. 1st St, Montrose 81401; Carl Anderson, St. Mgr. & Exec. V.P.
KTVS-TV (Ch 3), State Hwy. 61, Sterling; Carl Occhipinti, Resident Mgr.

CONNECTICUT

WHCT-TV (Ch 18), 555 Asylum St, Hartford; George W Cyr V.P. & Gen. Mgr.
WTIC-TV (Ch 3), 3 Constitution Plaza, Hartford 06103; Leonard J. Patricelli, Pres.
WNHC-TV (Ch 8), 135 College St, New Haven 06510; Howard Maschmeier, Gen. Mgr.
WATR-TV (Ch 20), 440 Meadow St, Waterbury 06702; B. Preston Gilmore, V.P.
WHNB-TV (Ch 30), 1422 New Britain Ave, West Hartford 06110; Robert W. Bray, V.P. & Gen. Mgr.

WASHINGTON D.C.

WDCA-TV (Ch 20) 5202 River Rd, Washington 20016; Milton Grant, Pres. & Gen. Mgr.
WMAL-TV (Ch 7), 4461 Connecticut Ave. N.W, Washington 20008; Frederick Houwink, V.P.
WFAN-TV (Ch 14), 5321 First Place N.E, Washington 20011; E. Carlton Myers Jr, Gen. Mgr.
WRC-TV (Ch 4), 4001 Nebraska Ave. N.W, Washington 20016; Joseph Goodfellow, V.P. & Gen. Mgr.
WTTG-TV (Ch 5), 5151 Wisconsin Ave. N.W, Washington 20016; Thomas Maney, V.P. & Gen. Mgr.
WHOP-TV (Ch 9), 40th & Brandywine Sts. N.W, Washington; John Corporon, V.P. & Gen. Mgr.

FLORIDA

WINK-TV (Ch 11), 2824 Palm Beach, Fort Myers 33901; A. F. Bauer, V.P. & Gen. Mgr.
WESH-TV (Ch 2), P.O. Box 1551, Daytona Beach 32015; John M. Haberlan, V.P. & Gen. Mgr.
WTVX-TV (Ch 34), U.S. Hwy. 1, Fort Pierce 33450; W. E. Minshall, Pres. & Gen. Mgr.
WFGA-TV (Ch 12), 1070 E. Adams St, Jacksonville 32201; Ralph Nimmons, V.P. & St. Mgr.
WJKS-TV (Ch 17), Box 17000, Jacksonville 32216; John J. Keenan, V.P. & Gen. Mgr.
WJXT-TV (Ch 4), 1851 Southampton Rd, Jacksonville 32207; Glenn Marshall, Chmn.
WCKT-TV (Ch 7), Box 1118, Miami 33138; Sidney Ansin, Pres.
WLBW-TV (Ch 10), 3900 Biscayne Blvd, Miami 33137; Thomas Welstead, V.P. & Gen. Mgr.
WTVJ-TV (Ch 4), 316 N. Miami Ave, Miami 33128; William Brazzil, V.P. in charge.
WDBO-TV (Ch 6), Box 1833, Orlando 32802; Joseph Sinclair, Chmn. of Board.
WFTV-TV (Ch 9), Box 5795, Orlando 32805; Walter W. Windsor, Gen. Mgr.
WPTV-TV (Ch 5), 5 Cocoanut Row, Palm Beach 33480; Chester E. Pike Jr, V.P. & Gen. Mgr.
WJHG-TV (Ch 7), 8195 W. Highway 98, Panama City 32401; James Tighe, V.P. & Gen. Mgr.
WSUN-TV (Ch 38), 210 2nd N, St. Petersburg 33701; Stokes Gresham Jr, Gen. Mgr.
WLCY-TV (Ch 10), Box 14000, St. Petersburgh 33733; Sam Rahall, Pres. & Gen. Mgr.
WCTV-TV (Ch 6), Box 3547, Tallahassee 32303; Joseph F. Hosford, V.P. & Gen. Mgr.
WFLA-TV (Ch 8), Box 1410, Tampa 33601; George W. Harvey, V.P. & Gen. Mgr.
WTVT-TV (Ch 13), Box 1198, Tampa 33601; E. B. Dodson, V.P. & Mgr.
WEAT-TV (Ch 12), Box 70, West Palm Beach 33402; John D. Mac-Arthur, Pres.
WEAR-TV (Ch 3), Box 431, Pensacola 32502; Milt de Reyna, Gen. Mgr. & Film Buyer.

GEORGIA

WALB-TV (Ch 10), Stuart Ave, Albany 31701; Raymond E. Carow, V.P. & Gen. Mgr.
WAGA-TV (Ch 5), P.O. Box 4207, Atlanta 30302; H. W. Ray, Gen. Mgr.
WQXI-TV (Ch 11), 1611 W. Peachtree St, N.E. Atlanta 30309; George Hagar, Gen. Mgr.
WSB-TV (Ch 2), 1601 W. Peachtree St, Atlanta 30309; Don Elliot Heald, Gen. Mgr.
WJBF-TV (Ch 6), P.O. Box 1404, Augusta 30903; Asa Stallworth, V.P.
WRBL-TV (Ch 3), Box 270, Columbus 31902; J. W. Woodruff Jr. Pres. & Gen. Mgr.
WTVM-TV (Ch 9), 1307 1st Ave, Columbus 31901; Joe Windsor, V.P. & Gen. Mgr.
WMAZ-TV (Ch 13), P.O. Box 5008, Macon 31208; Albert Sanders, Gen. Mgr.
WSAV-TV (Ch 3), 1430 E. Victory Drive, Savannah 31404; Harben Daniel, Pres. & Gen. Mgr.
WTOC-TV (Ch 11), Box 8086, Savannah 31402; F. S. Knight, Pres. & Gen. Mgr.

HAWAII

KGMB-TV (Ch 9), 1534 Kapiolani Blvd, Honolulu 96809; Cecil Heftel, Pres. & Gen. Mgr.
KHON-TV (Ch 2), 1170 Auahi St, Honolulu 96814; Daniel Kawakami, St. Mgr.
KHVH-TV (Ch 4), 1290 Ala Moana Blvd, Honolulu 96814; Lawrence S. Berger, Pres.
KHAW-TV (Ch 11) (Satellite of KHON-TV at Hilo).
KHVO-TV (Ch 13) (Satellite of KHVH-TV at Hilo).
KPUA-TV (Ch 9) (Satellite of KGMB-TV at Hilo).
KAII-TV (Ch 7) (Satellite of KHON-TV at Wailuku).
KMAU-TV (Ch 3) (Satellite of KGMB-TV at Wailuku).
KMVI-TV (Ch 12) (Satellite of KHVH-TV at Wailuku).

IDAHO

KBOI-TV (Ch 2), 1007 W. Jefferson St, Boise 83702; Westerman Whillock, Pres. & Gen. Mgr.
KTVB-TV (Ch 7), 700 Crestline Dr, Boise 83702; Robert Krueger, Exec. V.P. & Gen. Mgr.
KIFI-TV (Ch 8), Box 2148, Idaho Falls 83401; J. M. Brady, Pres. Gen. Mgr. & Nat. Sales Mgr.
KID-TV (Ch 3), 1255 E. 17th St, Idaho Falls 83401; J. Allen Jensen, Exec. V.P. & Gen. Mgr.
KMVT-TV (Ch 11), Elizabeth at Eastland, Twin Falls 83301; Gordon Glassman, Pres. & Gen. Mgr.
KTVR-TV (Ch 7) (Satellite of KTVB-TV).

ILLINOIS

WCIA-TV (Ch 3), 509 S. Neil St, Champaign 61820; August C. Meyer, Pres.
WCHU-TV (Ch 33) (Satellite of WICS-TV at Champaign).
WFLD-TV (Ch 32), Television Centre, Chicago 60611; E. S. Shomo, Pres. & Gen. Mgr.
WBBM-TV (Ch 2), 630 N. McClurg St, Chicago 60611; Edward Kenefick, V.P. & Gen. Mgr.
WLS-TV (Ch 7), 190 N. State St, Chicago 60611; Richard A. O'Leary, V.P. & Gen. Mgr.
WCIU-TV (Ch 26), 141 W. Jackson, Chicago 60604; J. W. O'Connor, Pres. & Gen. Mgr.
WGN-TV (Ch 9), 2501 Bradley Place, Chicago 60618; Daniel T. Pecaro, V.P. & Gen. Mgr.
WMAQ-TV (Ch 5), Merchandise Mart, Chicago 60654; Robert Lemon, V.P. & Gen. Mgr.
WAND-TV (Ch 17), Box 631, Decatur 62525; Jack Kussart, V.P. & Gen. Mgr.
WEEK-TV (Ch 25), 2907 Springfield Rd, East Peoria 61611; Fred C. Mueller, Gen. Mgr.
WSIL-TV (Ch 3), 21 W. Poplar St, Harrisburg 62946; O. L. Turner, Mgr. & Film Buyer.
WQAD-TV (Ch 8), 3003 Park 16th St, Moline 61265; Arthur M. Swift, Exec. V.P. & Gen. Mgr.
WIRL-TV (Ch 19), 109 S. W. Jefferson, Peoria 61602 Howard N. Frederick, V.P. & Gen. Mgr.
WMBD-TV (Ch 31), 212 S. W. Jefferson Ave, Peoria 61602; William L. Brown, Gen. Mgr.
WGEM-TV (Ch 10), Hotel Quincy, Quincy 62301; Joseph Bonansinga, V.P. Treasurer & Gen. Mgr.
WCEE-TV (Ch 23), Box 957, Rockford 61105; Earl Hickerson, V.P. & Gen. Mgr.
WHBF-TV (Ch 4), Telco Bldg, Rock Island 61201; Maurice Corken, V.P. & Gen. Mgr.
WTVO-TV (Ch 17), Box 470, Rockford 61105; Harold Froelich, Gen. Mgr.
WREX-TV (Ch 13), W. Auburn & Winnebago Rds. Rockford 61103; J. M. Baisch, V.P. & Gen. Mgr.
WICS-TV (Ch 20), 2680 E. Cook, Springfield 62703; Milton D. Friedland, V.P. & Gen. Mgr.
WICD-TV (Ch 24), (Satellite of WICS-TV at Danville).
WWEQ-TV (Ch 35) (Satellite of WEEK-TV at La Salle).

INDIANA

WEHT-TV (Ch 25), Box 395, Evansville 47704; William R. Hight, Gen. Mgr. & Film Buyer.
WFIE-TV (Ch 14), 1115 Mt. Auburn Rd, Evansville 47712; Kelly Atherton, V.P. & Gen. Mgr.
WTVW-TV (Ch 7), 405 Carpenter St, Evansville 47708; E. Berry Smith, V.P. & Gen. Mgr.
WPTA-TV (Ch 21), 3333 Butler Rd, Ft. Wayne 46804; Victor H. Sterling, Gen. Mgr. & Film Buyer.
WANE-TV (Ch 15), 2915 W. State Blvd, Ft. Wayne 46808; Reid G. Chapman, V.P. Gen. Mgr. & Film Buyer.
WKJG-TV (Ch 33), 2633 W. State Blvd, Ft. Wayne 46808; Hilliard Gates, V.P. & Gen. Mgr.
WFBM-TV (Ch 6), 1330 N. Meridan St, Indianapolis 46202; Eldon Campbell, V.P. & Gen. Mgr.
WISH-TV (Ch 8), Box 1950, Indianapolis 46206; Robert B. McConnell, V.P. & Gen. Mgr.
WTTV-TV (Ch 4), 3490 Bluff Rd, Indianapolis 46217; Elmer Snow, Mgr.
WLWI-TV (Ch 13), 1401 N. Meridan St, Indianapolis 46202; William E. Wuerch, V.P. & Gen. Mgr.
WLFI-TV (Ch 18), McCarty Lane, Lafayette 47905; Richard W. Long, Gen. Mgr.
WTAF-TV (Ch 31), P.O. Box 631, Marion 46953; Donald Tillman, Pres.
WLBC-TV (Ch 49), Box 271, Municie 47302; Don Burton, Pres. Treasurer & Gen. Mgr.
WNDU-TV (Ch 16), P.O. Box 16, South Bend 46624; William T. Hamilton, V.P. & Gen. Mgr.
WSBT-TV (Ch 22), 300 W. Jefferson Blvd, South Bend 46601; Jack E. Douglas, Gen. Mgr.
WSJV-TV (Ch 28), Box 28, South Bend 46624; Don E. Fuller, Gen. Mgr.
WTHI-TV (Ch 10), 918 Ohio St, Terre Haute 47808; Anton Hulman Jr, Pres. & Gen. Mgr.
WTWO-TV (Ch 2), Box 299, Terre Haute 47808; John T. Gelder Jr, Exec. V.P. & Gen. Mgr.

IOWA

WOI-TV (Ch 5), WOI-TV Bldg, Ames 50010; Robert C. Mulhall, Gen. Mgr. & Film Buyer.
KCRG-TV (Ch 9), First Ave. & First St. S.W, Cedar Rapids 52404; Edwin J. Lasko, Gen. Mgr.
WMT-TV (Ch 2), P.O. Box 1111, Cedar Rapids 52406; Ralph S. Jackson, Pres.
WOC-TV (Ch 6), 805 Brady St, Davenport 52808; David Palmer, Pres. & Treasurer.
KRNT-TV (Ch 8), Ninth & Pleasant Sts, Des Moines 50309; Robert Dillon, Gen. Mgr.
WHO-TV (Ch 13), 1100 Walnut St, Des Moines 50308; Robert H. Harter, V.P. & Gen. Mgr.
KVFD-TV (Ch 21), Television Square, Fort Dodge 50501; Ed Breen, Pres. & Film Buyer.
KGLO-TV (Ch 3), Second & Pennsylvania, Mason City 50401; Lloyd Loers, St. Mgr.
KTVO-TV (Ch 3), KTVO Bldg, Ottumwa 52501; Alvina Britz, Gen. Mgr.
KTIV-TV (Ch 4), Tenth & Grandview, Sioux City 51105; Dietrich Dirks, Pres. & Gen. Mgr.
KCAU-TV (Ch 9), Seventh & Douglas Sts, Sioux City 51101; William F. Turner, Gen. Mgr.
KWWL-TV (Ch 7), E. Fourth & Franklin Sts, Waterloo 50703; Thomas L. Young, Asst. to Pres.

KANSAS

KTVC-TV (Ch 6), Box 157, Dodge City 67801; Wayne Harris, Gen. Mgr.
KOAM-TV (Ch 7), Box 659, Pittsburg 66762; R. E. Wade, V.P. & Film Buyer.
WIBW-TV (Ch 13), Box 119, Topeka 66601; Thad M. Sandstrom, V.P. & Gen. Mgr.
KAKE-TV (Ch 10), 1500 N.W. St, Wichita 67203; Martin Umansky, V.P. & Gen. Mgr.
KARD-TV (Ch 3), 833 N. Main St, Wichita 67203; C. E. Hendriksen, V.P. Gen. Mgr. & Sales Mgr.
KTVH-TV (Ch 12), 2815 E. 37th St, Wichita 67201; M. Dale Larsen, V.P. & Gen. Mgr.
KGLD-TV (Ch 11) (Satellite of KARD-TV at Garden City).
KUPK-TV (Ch 13) (Satellite of KAKE-TV at Garden City).
KLOE-TV (Ch 10) (Satellite of KAYS-TV at Goodland).
KCKT-TV (Ch 2) (Satellite of KARD-TV at Great Bend).
KAYS-TV (Ch 7), Box 817, Hays; Robert E. Schmidt, Gen. Mgr.

KENTUCKY

WLTV-TV (Ch 13), Box 1198, Bowling Green 42101; J. M. Walters, V.P. Gen. Mgr. & Film Buyer.
WKYT-TV (Ch 27), Box 655, Lexington 40501; L. C. Redmon, Gen. Mgr. & Nat. Sales Mgr.
WHAS-TV (Ch 11), 520 W. Chestnut St, Louisville 40202; Victor A. Sholis, Pres. & St. Dir.
WAVE-TV (Ch 3), 725 S. Floyd St, Louisville 40203; T. Ballard Morton, Pres.
WLEX-TV (Ch 18), Box 1457, Lexington 40501; Harry G. Barfield, V.P. Gen. Mgr. & Film Buyer.
WLKY-TV (Ch 32), 1918 Mellwood Ave, Louisville 40206; Ed Shadburne, Gen. Mgr.
WPSD-TV (Ch 6), 408 Kentucky Ave, Paducah 42001; Sam Livingston, Gen. Mgr.

LOUISIANA

KALB-TV (Ch 5), 605-11 Washington St, Alexandria 71301; Robert E. Miller, Gen. Mgr.
WAFB-TV (Ch 9), 844 Government St, Baton Rouge 70802; Tom E. Gibbens, Pres. & Gen. Mgr.
WBRZ-TV (Ch 2), 1650 Highland Rd, Baton Rouge 70802; Douglas L. Manship, Pres. & Gen. Mgr.
KATC-TV (Ch 3), Box 3347, Lafayette 70504; William Patton, Gen. Mgr.
KLFY-TV (Ch 10), Box 3687, Lafayette 70501; Thomas G. Pears, Gen. Mgr.
KPLC-TV (Ch 7), 320 Division St, Lake Charles 70502; Harry K. Renfro, Pres.
KNOE-TV (Ch 8), Knoe Rd, Monroe 71201; Paul H. Goldman, Exec. V.P. & Gen. Mgr.
WDSU-TV (Ch 6), 520 Royal St, New Orleans 70130; A. Louis Read, Pres.
WVUE-TV (Ch 12), 1422 Cleveland Ave, New Orleans 70112; Douglas J. Ellcson, V.P. & Gen. Mgr.
WWL-TV (Ch 4), 1024 N. Rampart St, New Orleans 70116; J. Michael Early, V.P. & Gen. Mgr.

KSLA-TV (Ch 12), Box 92, Shreveport 71102; Winston B. Linam, Gen. Mgr. & Film Buyer.
KTAL-TV (Ch 6), 3150 N. Market St, Shreveport 71107; Walter Hussman, Pres.
KTBS-TV (Ch 3), 312 E. Kings Highway, Shreveport 71104; E. Newton Wray, Pres. & Gen. Mgr.
WWOM-TV (Ch 26), International Trade Mart, Canal St, New Orleans; David Wagenvoord, Pres. & Gen. Mgr.

MAINE
WABI-TV (Ch 5), 35 Hildreth St, Bangor 04401; Walter Dickson, Pres. & Gen. Mgr.
WEMT-TV (Ch 7), 41 Farm Rd, Bangor 04401; William H. Hart, V.P. & Sales Mgr.
WLBZ-TV (Ch 2), Box 732, Bangor 04401; Rudolph Marcoux, Mgr. & Film Buyer.
WCHS-TV (Ch 6), 579 Congress St, Portland 04101; Jack Atwood, V.P. & Gen. Mgr.
WGAN-TV (Ch 13), 390 Congress St, Portland 04111; George N. Anderson, V.P. & Gen. Mgr.
WMTW-TV (Ch 8), Poland Spring, Me. 04274; John C. Flynn, V.P. & Gen. Mgr.
WAGM-TV (Ch 8), Box 1149, Presque Isle 04769; Stanley Lyons, V.P. & Gen. Mgr.

MARYLAND
WBAL-TV (Ch 11), 3800 Hooper Ave, Baltimore 21211; Brent Gunts, V.P. & Gen. Mgr.
WJZ-TV (Ch 13), Television Hill, Baltimore 21211; John Rohrbach, Gen. Mgr.
WMAR-TV (Ch 2), 6400 York Rd, Baltimore 21203; Donald Campbell, Gen. Mgr.
WBOC-TV (Ch 16), Radio Park, Salisbury 21801; Charles Truitt, V.P. & Gen. Mgr.
WMET-TV (Ch 24), 4340 Park Heights Ave, Baltimore 21215 Pierre D. Eaton, V.P.

MASSACHUSETTS
WBZ-TV (Ch 4), 1170 Soldiers Field Rd, Boston 02134; Lamont L. Thompson, V.P. (Boston).
WHDH-TV (Ch 5), 50 Morrissey Blvd, Boston 02125; Harold Clancy, Pres. & Gen. Mgr.
WSBK-TV (Ch 38), 83 Leo Birmingham, Boston 02215; William J. Flynn, Gen. Mgr.
WNAC-TV (Ch 7), RKO Bldg, Gove Center, Boston 02114; William McCormick, V.P. & Gen. Mgr.
WTEV-TV (Ch 6), Television Center, New Bedford 02740; Vance L. Eckersley, St. Mgr.
WHYN-TV (Ch 40), 1300 Liberty St, Springfield 01101; William A. Creed, V.P. & Gen. Mgr.
WWLP-TV (Ch 22), Box 2210, Springfield 01101; William Putnam, Pres. & Gen. Mgr.
WCDC-TV (Ch 19) (Satell te of WTEN-TV in Albany, N.Y. at Adams, (Mass.).
WKBG-TV (Ch 56), Box 561, Boston 02102; L. William White, Gen. Mgr.
WRLP-TV (Ch 32) (Satellite of WWLP-TV in Springfield at Greenfield).
WJZB-TV (Ch 14) (Affiliate operation of WWLP-TV in Springfield at Worcester).

MICHIGAN
WWTV-TV (Ch 9), Box 627, Cadillac 49601; Gene Eilerman, V.P. & Gen. Mgr.
CKLW-TV (Ch 9), Guardian Bldg, Detroit 48226; S. C. Ritchie, Pres. & Gen. Mgr.
WJBK-TV (Ch 2), 7441 Second Blvd, Detroit 48202; Lawrence Carino, V.P. & Gen. Mgr.
WWJ-TV (Ch 4), 622 Lafayette Blvd, Detroit 48231; Don F. DeGroot, Gen. Mgr.
WJRT-TV (Ch 12), 2302 Lapeer Rd, Flint 48503; Albert J. Gillen, Exec, V.P.
WOOD-TV (Ch 8), 120 College Ave, S.E. Grand Rapids 49502; Willard Schroeder, V.P. & Gen. Mgr.
WZZM-TV (Ch 13), P.O. Box 13, Grand Rapids 49501; William C. Dempsey, Pres. & Gen. Mgr.
WILX-TV (Ch 10), Stoddary Bldg, Lansing 48933; William J. Hart, Gen. Mgr. & Film Buyer.
WKZO-TV (Ch 3), 590 W. Maple St, Kalamazoo 49001; Carl E. Lee, Exec, V.P. & Gen. Mgr.
WJIM-TV (Ch 6), E. Saginaw at Howard St, Lansing 48912; Harold F. Gross, Pres.
WLUC-TV (Ch 6), Box 460, Marquette 49855; Elroy E. Strand, Gen. Mgr. & Nat. Sales Mgr.
WKNX-TV (Ch 57), 5200 State St, Washington Ave, Saginaw 48603; William J. Edwards, Pres. & Gen. Mgr.
WNEM-TV (Ch 5), 5700 Becker Rd, Saginaw 48601; James Gerity Jr, Pres. & Gen. Mgr.
WKBD-TV (Ch 50), Box 359, Southfield 48075; Richard L. Freeman, Gen. Mgr.
WXYZ-TV (Ch 7), 20777 W. 10 Mile Rd, Southfield 48076; Dean McCarthy, Gen. Mgr.
WPBN-TV (Ch 7), Paul Bunyan Bldg, Traverse City 49684; Harold Lipson, Gen. Mgr.
WTOM-TV (Ch 4) (Affiliate WPBN-TV in Traverse City at Cheboygan).
WWUP-TV (Ch 10) (Satellite of WWTV-TV in Cadillac at Sault Ste. Marie).

MINNESOTA
KCMT-TV (Ch 7), Box 612, Alexandria 56308; Glenn W. Flint, V.P. & Gen. Mgr.
KDAL-TV (Ch 3), 425 W Superior, Duluth 55802; Odin S. Ramsland, Gen. Mgr.
WDIO-TV (Ch 10), 10 Observation Rd, Duluth 55811; Frank Befera, Pres. & Gen. Mgr.
WDSM-TV (Ch 6), 230 E. Superior St, Duluth 55802; Robert J. Rich, Gen. Mgr.
KEYC-TV (Ch 12), P.O. Box 1210, Mankato 56001; Donald Harrer, St. Mgr.
KMSP-TV (Ch 2), Fodhay Tower, Minneapolis 55402; Donald Swartz, Pres. Gen. Mgr. & Film Buyer.
WCCO-TV (Ch 4), 50 S. Ninth St, Minneapolis 55402; F. van Konynenburg, Pres.
WTCN-TV (Ch 11), 2925 Dean Blvd, Minneapolis 55416; Robert C. Fransen, V.P. & Gen. Mgr.
KROC-TV (Ch 10), 100 First Ave. Bldg, Rochester 55901; David Gentling, Gen. Mgr.
KSTP-TV (Ch 5), 3415 University Ave, St. Paul 55114; Stanley S. Hubbard, Pres. & Gen. Mgr.
KNMT-TV (Ch 12) (Affiliate of KCMT-TV in Alexandria at Walker).

MISSISSIPPI
WLOX-TV (Ch 3), Buena Vista Hotel, Biloxi 39530; Ray Butterfield, Gen. Mgr.
WCBI-TV (Ch 4), Hwy 12, 4-mi; NE of Columbus 39701; William Whitfield, Gen. Mgr.
WABG-TV (Ch 6), Drawer 120, Greenwood 38931; Cy N. Bahakel, Pres. & Gen. Mgr.
WDAM-TV (Ch 7), Box 1978, Hattiesburg 39402; Marvin Reuben, Gen. Mgr. & Film Buyer.
WJTV-TV (Ch 12), Box 8187, Jackson 39204; L. M. Sepaugh, Film Dir.
WLBT-TV (Ch 3), 715 S. Jefferson St, Jackson 39201; Bob McRaney Jr, Gen. Mgr.
WTOK-TV (Ch 11), Box 2988, Meridian 39302; Robert Wright, Pres. & Gen. Mgr.
WTWV-TV (Ch 9), Box 350, Tupelo 38801; Frank Spain, Pres. & Gen. Mgr.

MISSOURI
KFVS-TV (Ch 12), 324 Broadway, Cape Girardeau 63701; Oscar C. Hirsch, Pres. & Gen. Mgr.
KOMU-TV (Ch 8), Highway 63, South Columbia 65201; Glenn Griswold, St. Mgr.
KRCG-TV (Ch 13), Highway 54 North, Jefferson City 65101; E. J. Schuelein, Gen. Mgr, Nat. Sales Mgr. & Film Buyer.
KODE-TV (Ch 12), 1928 W. 13th St, Joplin 64801; D. T. Knight, V.P, Gen. Mgr. & Film Buyer.
WDAF-TV (Ch 4), Signal Hill, Kansas City 64108; Jack Remington, Gen. Mgr.
KCMO-TV (Ch 5), 125 E. 31st St, Kansas City 64108; E. K. Hartenbower, V.P. & Gen. Mgr.
KMBC-TV (Ch 9), 11th & Central St, Kansas City 64105; Ellis Shook, V.P. & Gen. Mgr.
KQTV-TV (Ch 2), 40th & Faraon St, St. Joseph 64506; Thomas Mathews, Gen. Mgr.
KMOX-TV (Ch 4), One Memorial Dr, St. Louis 63102; Leon Drew, V.P. & Gen. Mgr.
KPLR-TV (Ch 11), 4935 Lindell Blvd, St. Louis 63108; Michael McCormick, Gen. Mgr.
KSD-TV (Ch 5), 1111 Olive St, St. Louis 63101; Harold Grams, V.P. Broadcasting.
KTVI-TV (Ch 2), 5915 Berthold Ave, St. Louis 63110; Ralph Hansen, Gen. Mgr.
KTTS-TV (Ch 10), 2650 E. Division St, Springfield 68053; G. Pearson Ward, V.P, Mgr. & Film Buyer.
KYTV-TV (Ch 3), 999 W. Sunshine, Springfield 65804; Carl Fox, Co-Mgr, Prog. Mgr. & Film Buyer.
KPOB-TV (Ch 15) (Satellite of WSIL-TV in Harrisburg, Ill. at Poplar Bluff, Mo.).
KMOS-TV (Ch 6) (Satellite of KRCG-TV in Jefferson City at Sedalia).

MONTANA
KOOK-TV (Ch 2), Box 2557, Billings 59103; Cliff Ewing, Gen. Mgr. & Nat. Sales Mgr.
KULR-TV (Ch 8), Box 2512 Billings 59103; Ralph H. Davison Jr., V.P. & Gen. Mgr.

KXLF-TV (Ch 4), 1003 S. Montana St, Butte 59701; E. L. Paise, Gen. Mgr. & Film Buyer.
KXGN-TV (Ch 5), Box 200, Glendive 59330; George S. Blum, Gen. Mgr.
KFBB-TV (Ch 5), Box 1139, Great Falls 59401; Don McClintock, V.P. & Gen. Mgr.
KRTV-TV (Ch 3), Box 1331, Great Falls 59401, Don Bradley, Gen. Mgr.
KBLL-TV (Ch 12), 2433 N. Montana Ave, Helena 58601; David R. Greene, Gen. Mgr.
KGVO-TV (Ch 13), 340 W. Main St, Missoula 59801; W. C. Blanchette, Gen. Mgr. & Nat. Sales Mgr.

NEBRASKA

KHAS-TV (Ch 5), Box 578, Hastings 68901; Duane L. Watts, V.P, Gen. Mgr. & Film Buyer.
KHOL-TV (Ch 13), 414 E. Ave, Holdredge 68949; F. Wayne Brewster, M.D. Pres. & Gen. Mgr.
KOLN-TV (Ch 10), 40th & West Sts, Lincoln 68501; A. James Ebel, V.P. & Gen. Mgr.
KNOP-TV (Ch 2), Box 749, N. Platte 69101; Ulysses Carline, Gen. Mgr.
KETV-TV (Ch 7), 27th & Douglas Sts, Omaha 68131; Ben H. Cowdery, Pres.
KMTV-TV (Ch 3), 2615 Farnam St, Omaha 68131; Owen Saddler, Exec, V.P. & Gen. Mgr.
WOW-TV (Ch 6), 3501 Farnam St, Omaha 68131; Howard L. Stalnaker, V.P. & Gen. Mgr.
KHQL-TV (Ch 8) (Satellite of KHOL-TV in Kearney at Albion).
KGIN-TV (Ch 11) (Satellite of KOLN-TV in Lincoln at Grand Island).
KDUH-TV (Ch 4) (Affiliate of KOTA-TV in Rapid City, S.D. at Hay Springs, Neb.).
KHPL-TV (Ch 6) (Satellite of KHOL-TV in Kearney at Hayes Center).
KOMC-TV (Ch 8) (Satellite of KARD-TV in Wichita, Kan. at McCook, Neb.).
KSTF-TV (Ch 19) (Satellite of KFBC-TV in Cheyenne, Wyo. at Scottsbluff, Neb.).
KHTL-TV (Ch 4) (Satellite of KHOL-TV in Kearney at Superior).

NEVADA

KORK-TV (Ch 2), Box 550, Las Vegas 89101; Edward R. Tabor, V.P. & Gen. Mgr.
KSHO-TV (Ch 13), 3349 Valley View, Las Vegas 89102; Robert M. Fisher, V.P.
KLAS-TV (Ch 8), 250 E. Dessert Inn Rd, Las Vegas 89109; Mark Smith, Gen. Mgr.
KCRL-T (Ch 4), 1790 Vassar St, Reno 89502; Roger Van Duzer, St. Mgrs.
KOLO-TV (Ch 8), 770 E. 5th St, Reno 89502; Allen W. Dunn, V.P. & Gen. Mgr.

NEW HAMPSHIRE

WMUR-TV (Ch 9), 1819 Elm St, Manchester 03104; S. E. Phillips, V.P. & Gen. Mgr.
WRLH-TV (Ch 31), 14 Main St, W. Lebanon; Paul Bond, Pres.

NEW JERSEY

WNJU-TV (Ch 47), 1020 Broad St, Newark 07102; Herbert T. Green, Pres. & Gen. Mgr.
WCMC-TV (Ch 40), 3010 New Jersey Ave, Wildwood 08260; William C. Wotring Jr, Pres. & Gen. Mgr.
WNJU-TV (Ch 47), 1020 Broad St, Newark 07102; Herbert T. Green, Pres. & Gen. Mgr.
WCMC-TV (Ch 40), 3010 New Jersey Ave, Wildwood 08260; William C. Wotring Jr, Pres. & Gen. Mgr.

NEW MEXICO

KGGM-TV (Ch 13), Box 1294, Albuquerque 87103; Bruce Hebenstreit, Pres.
KOAT-TV (Ch 7), 1377 University Blvd. N.E, Albuquerque 87106; Max A. Sklower, St. Mgr. & Sales Mgr.
KOB-TV (Ch 4), 1430 Coal Ave. S.W, Albuquerque 87104; Jerry Danziger, Gen. Mgr.
KAVE-TV (Ch 6), Drawer K, Monahaw, Texas 79756; John B. Walton Jr, Owner.
KBIM-TV (Ch 10), 308 N. Main, Roswell 88201; W. H. Bailey, St. Mgr.
KSWS-TV (Ch 8), Box 2190, Lubbock, Tex. 79408; John A. Barnett. Pres.
KFDW-TV (Ch 12) (Satellite of KFDA-TV in Amarillo, Tex. at Clovis, N.M.).

NEW YORK

WAST-TV (Ch 13), P.O. Box 4035, Albany 12204; John Crawford, Gen. Mgr.
WTEN-TV (Ch 10), P.O. Box 10, Albany 12201; Kenneth M. Johnson, V.P. & Gen. Mgr.
WNBF-TV (Ch 10), Sheraton Inn, Binghampton 13902; George Dunham, Gen. Mgr.
WBJA-TV (Ch 34), Ingraham Hill Road, Binghampton 13902; Gerald T. Arthur, Pres.
WINR-TV (Ch 40), 70 Henry St, Binghampton 13901; Edward Scala, Gen. Mgr. & Film Buyer.
WBEN-TV (Ch 4), 2077 Elmwood Ave, Buffalo 14207; C. Robert Thompson, V.P.
WGR-TV (Ch 2), 184 Barton St, Buffalo 14213; Robert Wiegand, V.P., Gen. Mgr. & Film Buyer.
WKBW-TV (Ch 7), 1420 Main St, Buffalo 14209; Robert King, V.P. & Gen. Mgr.
WABC-TV (Ch 7), 1330 Ave. of the Americas, New York 10019; Richard L. Beesemyer, V.P. & Gen. Mgr.
WCBS-TV (Ch 2), 51 W. 52nd St, New York 10019; Alan P. Sloan, V.P. & Ben. Mgr.
WNBC-TV (Ch 4), 30 Rockefeller Plaza, New York 10020; Theodore H. Walworth Jr, V.P. & Gen. Mgr.
WNEW-TV (Ch 5), 205 E. 67th St, New York 10021; Robert M. Bennett, V.P. & Gen. Mgr.
WOR-TV (Ch 9), 1440 Broadway, New York 10018; Edward A. Warren, Gen. Mgr.
WPIX-TV (Ch 11), 220 E. 42nd St, New York 10017; Fred Thrower, Pres.
WPTZ-TV (Ch 5), 357-351 Cornelia St, Plattsburgh 12902; W. P. Eaton Jr, Gen. Mgr.
WHEC-TV (Ch 10), 191 E. Ave, Rochester 14604; C. Glover Delaney, V.P. & Gen. Mgr.
WOKR-TV (Ch 13), 17 Clinto Ave. South, Rochester 14604; Richard Landsman, Pres. & Gen. Mgr.
WROC-TV (Ch 8), WROC Broadc. Center, Rochester 14610; Ervin F. Lyke, V.P. & Man. Dir.
WRGB-TV (Ch 6), 1400 Balltown Rd, Schenectady 12309; Robert L. Gilbertson, V.P. & Gen. Mgr.
WNYS-TV (Ch 9), Box 9, Syracuse 13214; John E. McArdle, Gen. Mgr.
WHEN-TV (Ch 5), 980 James St, Syracuse 13203; Paul Adanti, V.P. & Gen. Mgr.
WSYR-TV (Ch 3), 1030 James St, Syracuse 13203; E. R. Vadeboncoeur, Pres.
WKTV-TV (Ch 2), Smith Hill Rd, Utica 13503; Sheldon F. Storrier, V.P. & Gen. Mgr.
WWNY-TV (Ch 7), 260 Washington St, Watertown 13601; James Higgins, Gen. Mgr.
WSYE-TV (Ch 18) (Satellite of WSYR-TV in Syracuse at Elmira).

NORTH CAROLINA

WANC-TV (Ch 62), 75 Scenic Highway Asheville 28804; Harold H. Thoms, Pres.
WBTV-TV (Ch 3), 1 Julian Price Pl, Charlotte 28208; Wallace Jorgenson, Exec. V.P.
WCCB-TV (Ch 36), 1 Television Pl, Charlotte 28205; Susan Ross, Mgr.
WSOC-TV (Ch 9), Box 2536, Charlotte 28201; C. George Henderson, Exec. V.P. & Gen. Mgr.
WTVD-TV (Ch 11), P.O. Box 2009, Durham 27702; Mike Thompson, Gen. Mgr.
WFMY-TV (Ch 2), Philips Ave. & White St, Greensboro 27405; William A. Gietz, V.P. & Gen. Mgr.
WNCT-TV (Ch 9), Box 898, Greensville 27834; Hank Tribley, Exec. V.P. & Gen. Mgr.
WGHP-TV (Ch 8), 314 N. Main St, High Point 27260; Philip J. Lombardo, Gen. Mgr.
WNBE-TV (Ch 12), Box 2325, New Bern 28560; Nathan Frank, Pres. & Gen. Mgr.
WRAL-TV (Ch 5), 2619 Western Blvd. Raleigh 27603; Fred Fletcher, Exec. V.P. & Gen. Mgr.
WITN-TV (Ch 7), Box 468, Washington; W. R. Roberson Jr, Pres. & Gen. Mgr.
WECT-TV (Ch 6), 205 W. Shipyard Blvd, Wilmington 28401; Dan D. Cameron, Pres.
WWAY-TV (Ch 3), Murchison Bldg, Wilmington 28401; Paul A. Brissette Jr, Gen. Mgr.
WSJS-TV (Ch 12), Box 3018, Winston-Salem 27102; Harold Essex, Pres. & Gen. Mgr.
WCTU-TV (Ch 36), P.O. Box 12685, Charlotte 28205.

NORTH DAKOTA

KFYR-TV (Ch 5), Box 1738, Bismarck 58501; Wes Hanger, Gen. Mgr.
KXMB-TV (Ch 12), Box 1617, Bismarck 58501; David Blackstead, V.P. & Gen. Mgr.
KDIX-TV (Ch 2), Box 1368, Dickinson 58601; Stanley Deck, Pres.
WDAY-TV (Ch 6), 207 N. Fifth St, Fargo 58101; Jack Lester, Gen. Mgr. & Nat. Sales Mgr.
KTHI-TV (Ch 11), 1350 21st Ave. So, Fargo 58103; W.P. Dix Jr, Gen. Mgr.
KCND-TV (Ch 12), 2008 Jackson St, Dallas, Texas 75201; Richard Vincent, Mgr.

WDAZ-TV (Ch 8) (Satellite of WDAY-TV in Fargo at Devils Lake).
KMOT-TV (Ch 10) (Satellite of KFYR-TV, Bismarck, Minot).
KXMC-TV (Ch 13), KXMC Bldg, Minot 58701; Chester Reiten, Pres. Gen. Mgr. & Film Buyer.
KXJB-TV (Ch 4) (Affiliate of KXMB-TV in Bismarck at Valley City).
KUMV-TV (Ch 8) (Satellite of KFYR-TV in Bismarck at Williston).

OHIO

WAKR-TV (Ch 49), P.O. Box 1590, Akron 44309; Roger G. Berk, V.P.
WCPO-TV (Ch 9), 500 Central Ave, Cincinnati 45202; Robert Gordon, V.P. & Gen. Mgr.
WKRC-TV (Ch 12), 1906 Highland Ave, Cincinnati 45219; Sam Johnston, V.P. Gen. Mgr. & Film Buyer.
WLWT-TV (Ch 5), 140 W. Ninth St, Cincinnati; Richard E. Reed, V.P. & Gen. Mgr.
WEWS-TV (Ch 5), 3001 Euclid Ave, Cleveland 44115; Donald L. Perris, V.P. & Gen. Mgr.
WJW-TV (Ch 8), 1630 Euclid Ave, Cleveland 44115; Kenneth Bagwell, V.P. & Gen. Mgr.
WKYC-TV (Ch 3), 1403 E. Sixth St, Cleveland 44114; Arthur A. Watson, V.P. & Gen. Mgr.
WBNS-TV (Ch 10), 770 Twin Rivers Dr, Columbus 43212; Richard A. Borel, Pres. & Gen. Mgr.
WLWC-TV (Ch 4), 3165 Olentangy River Rd, Columbus 43202; David Abbot, Gen. Mgr.
WTVN-TV (Ch 6), 753 Harmon Ave, Columbus 43223; Fred Von Stade, V.P. Gen. Mgr. & Film Buyer.
WHIO-TV (Ch 7), 1414 Wilmington Ave, Dayton 45401; Stanley Mouse, V.P. & Gen. Mgr.
WKEF-TV (Ch 22), 1731 Soldiers Home & W. Carrollton Rd, Dayton 45418; George J. Mitchell, V.P. Mgr.
WLWD-TV (Ch 2), 4590 Arco Drive, Dayton 45401; Donald Dahlman, V.P. & Gen. Mgr.
WIMA-TV (Ch 35), 1424 Rice Ave, Lima 45805; Robert Mack, Gen. Mgr.
WSTV-TV (Ch 9), 428 Market St, Steubenville 43952; George Baren Bregge, V.P. & Gen. Mgr.
WDHO-TV (Ch 24), Commodore Perry Hotel, Toledo 43604; Arthur M. Dorfner, Pres.
WSPD-TV (Ch 13), 136 Huron St, Toledo 42602; Keith T. McKenney, V.P. & Gen. Mgr.
WTOL-TV (Ch 11), 604 Jackson St, Toledo 43604; Carter C. Hardwick Jr, Gen. Mgr.
WKBN-TV (Ch 27), 3930 Sunset Blvd, Youngstown 44512; W. P. Williamson Jr, Pres. & Gen. Mgr.
WFMJ-TV (Ch 21), 101 W. Boardman St, Youngstown 44503; William J. Brown, Pres.
WYTV-TV (Ch 33), 3800 Shady Run Rd, Youngstown 44502; Howard D. Duncan Jr, Exec. V.P. & Gen. Mgr.
WHIZ-TV (Ch 18), Dawnerd Rd, Zanesville 43701; Robert Hodous, Gen. Mgr.
WJAN-TV (Ch 17), Box 985, Canton; Raymond K. Janson, Gen. Mgr.
WXIX-TV (Ch 19), 810 BW 8th St, Cincinnati 45203; R. D. McLarty, Gen. Mgr.

OKLAHOMA

KTEN-TV (Ch 10), Box 10, Ada 74820; Bill Hoover, Pres. Gen. Mgr. & Film Buyer
KSWO-TV (Ch 7), P.O. Box 708, Lawton 73502; R. H. Drewry, Pres. & Gen. Mgr.
KOCO-TV (Ch 5), Box 16538, Oklahoma City 73116; Ben K. West, V.P. & Gen. Mgr.
KWTV-TV (Ch 9), Box 14159, Oklahoma City 73114; Jacques De Lier, Gen. Mgr.
WKY-TV (Ch 4), Box 14668, Oklahoma City 73114; Norman P. Bagwell, V.P. & St. Mgr.
KTUL-TV (Ch 8), Box 9697, Tulsa 74107; William D. Swanson, V.P. Gen. Mgr. & Film Buyer.
KOTV-TV (Ch 6), 302 S. Frankfort St, Tulsa 74120; George Stevens, V.P. & Gen. Mgr.
KVOO-TV (Ch 2), 3701 S. Peoria, Tulsa 74105; John Devine, Exec. V.P. & Gen. Mgr.
KXII-TV (Ch 12), Madill, Oklahoma; C. M. Balding, Mgr.
KFDO-TV (Ch 8) (Satellite of KFDA-TV in Amarillo, Tex. near Sayre, Oklahoma) Pat Gilbreath, Resident Eng. supervisor.

OREGON

KEZI-TV (Ch 9), 2225 Coburg Rd, Eugene 97401; Don Tykeson, Pres. & Gen. Mgr.
KVAL-TV (Ch 13), Box 1313, Eugene 97401; S. W. McCready, V.P. & Gen. Mgr
KOTI-TV (Ch 2), Box 5M, Medford 97501; Don R. Stonehill, V.P. & St. Mgr.
KMED-TV (Ch 10), P.O. Box 10, Medford 97501; Ray Johnson, Exec. V.P. & Gen. Mgr.
KTVM-TV (Ch 5), 2000 Crater Lake Highway, Medford 97501; Jerold R. Poulos, V.P. & St. Mgr.
KATU-TV (Ch 2), 2153 N.E. Sandy Blvd, Portland 97232; William J. Hubbach, V.P. & Gen. Mgr.
KGW-TV (Ch 8), 1501 S.W. Jefferson, Portland 97201; Ancil H. Payne, V.P. & Gen. Mgr.
KOIN-TV (Ch 6), 140 S.W. Columbia St, Portland 97201; C. Howard Lane, Pres. & Man. Dir.
KPTV-TV (Ch 12), Box 3401 Portland 97208; John S. Hansen, Pres. & Gen. Mgr.
KCBY-TV (Ch 11) (Satellite of KVAL-TV in Eugene at Coos Bay) S. W. McCready, Gen. Mgr.
KOBI-TV (Ch 5) (Satellite of KTVB-TV in Boise, Idaho, at Le Grande, Ore.) Georgia M. Davidson, Pres.
KPIC-TV (Ch 4) (Satellite of KVAL-TV in Eugene at Roseburg) S. W. McCready, Gen. Mgr.

PENNSYLVANIA

WFBG-TV (Ch 10), 5000 Sixth Ave, Altoona 16602; John Stulli, Gen. Mgr.
WNEP-TV (Ch 16), Wilkes Barre-Scranton Airport, Avoca 18641; Thomas P. Shelburne, Gen. Mgr.
WICU-TV (Ch 12), 3514 State St, Erie; Art Ingram, Pres.
WSEE-TV (Ch 35), 1220 Peach St, Erie 16501; Edward Zellefrow, Gen. Mgr. & Film Buyer.
WJET-TV (Ch 24), 1635 Ash St, Erie 16503; Myron Jones, Pres.
WHP-TV (Ch 21), 216 Locust St, Harrisburg 17108; Joseph H. Higgins, Pres. & Gen. Mgr.
WTPA-TV (Ch 27), 3235 Hoffman St, Harrisburg 17110; Paul S. Abbott, Gen. Mgr. & Film Buyer.
WIBF-TV (Ch 29), Box 8828, Jenkintown (Philadelphia area) 19406; William Fox, Pres
WJAC-TV (Ch 6), Box 599, Johnstown 15907; Alvin D. Scrott, Exec. V.P. & Gen. Mgr.
WARD-TV (Ch 56), 301 Franklin St, Johnstown 15901; William D. Confer, Mgr. & Film Buyer.
WGAL-TV (Ch 8), 8 West King St, Lancaster 17603; Clair McCollough, Pres. & Gen. Mgr.
WLYH-TV (Ch 15), Television Hill, Lenanon 17402; Leo M. MacCourtney, Gen. Mgr.
KYW-TV (Ch 3), 1619 Walnut St, Philadelphia 19103; Kenneth McDonald, Gen. Mgr.
WCAU-TV (Ch 10), City & Monument Ave, Philadelphia 19131; Bruce S. Bryant, V.P. & Gen. Mgr.
WFIL-TV (Ch 6), 4100 City Line Ave, Philadelphia 19131; George A. Koehler, Gen. Mgr.
WKBS-TV (Ch 48), 3201 South 26th St, Philadelphia 19145; Carlo Anneke, Gen. Mgr.
WPHL-TV (Ch 17), 230 South 15th St, Philadelphia 19102; Robert F. Doty, Gen. Mgr.
KDKA-TV (Ch 2), 1 Gateway Center, Pittsburg 15222; James M. King, Gen. Mgr.
WIIC-TV (Ch 11), 341 Rising Main St, Pittsburgh 15214; Frank Gaither, V.P.
WTAE-TV (Ch 4), 400 Ardmore Blvd, Pittsburgh 15230; Franklin Snyder, V.P. & Gen. Mgr.
WDAU-TV (Ch 22), 100 Wyoming, Scranton 18509; Mrs. M. M. Holcomb, Gen. Mgr.
WBRE-TV (Ch 28), 62 So. Franklin St, Wilkes Barre 18703; David Baltimore, V.P. & Gen. Mgr.
WSBA-TV (Ch 43), 53 N. Duke St, New York 17401; Robert M. Stough, St. Mgr.

RHODE ISLAND

WJAR-TV (Ch 10), 176 Weybosset St, Providence 02903; J. S. Sinclair, Chmn.
WPRI-TV (Ch 12), 24 Mason St, Providence 02902; Edwin W. Pfeiffer, V.P. & Gen. Mgr.

SOUTH CAROLINA

WAIM-TV (Ch 40), 321 Kingsley Rd, Anderson 29621; Glenn Warnock, Gen. Mgr.
WCSC-TV (Ch 5), 485, East Bay, Charleston 29403; John M. Rivers, Pres. & Gen. Mgr.
WUSN-TV (Ch 2), Box 879, Charleston 29402; Douglas M. Bradham, V.P. & Gen. Mgr.
WIS-TV (Ch 10), 1111 Bull St, Columbia 29202; K. James Yager Senior, V.P. & Gen. Mgr.
WNOK-TV (Ch 19), Box 5307, Columbia 29205; H. Moody McElveen Jr, Exec. V.P.
WOLO-TV (Ch 25), Box 4217, Columbia 29204; Henry Hughes, St. Mgr. & Sales Mgr.
WBTV-TV (Ch 13), Box 630, Florence 29501; Joseph B. Foster, V.P. & Man. Dir.
WFBC-TV (Ch 4), Box 788, Greenville 29602; Wilson Wearn, Pres.

WLOS-TV (Ch 13), Box 2150, Greenville 28802; Morton S. Cohn, V.P. Gen. Mgr. & Film Buyer.
WCIV-TV (Ch 4), Highway 703, Mount Pleasant 29464; William Lucas, Gen. Mgr.
WSPA-TV (Ch 7), 123 N. Converse St, Spartanburg 29301; Charles Sanders, V.P. & Gen. Mgr.

SOUTH DAKOTA

KORN-TV (Ch 5), P.O. Box 908, Mitchell 57301; R. V. Eppel, Pres. & Gen. Mgr.
KOTA-TV (Ch 3), Box 1752, Rapid City 57701; Miss Helen S. Duhamel, Pres. & Gen. Mgr.
KRSD-TV (Ch 7), 1438 Mountain View, Rapid City 57704; Eli Daniels, Pres. & Gen. Mgr.
KELO-TV (Ch 11), Phillips at 13th St, Sioux Falls 57102; Evans Nord, Exec. V.P. & Gen. Mgr.
KSOO-TV (Ch 13), 205 N. Phillips Ave, Sioux Falls 57102; Morton Henkin, Pres. & Gen. Mgr.
KXAB-TV (Ch 9), Box 118, Aberdeen 57401; Harold Michaels, Sales Mgr.
KDSJ-TV (Ch 5) (Satellite of KRSK-TV in Rapid City at Deadwood) Harry Daniels, Resident Mgr.
KDLO-TV (Ch 3) (Satellite of KELO-TV in Sioux Falls at Watertown) Joe Floyd, Pres.
KHSD-TV (Ch 11) (Satellite of KOTA-TV in Rapid City at Lead) Wilbur Stonefelt, Resident Eng.
KPLO-TV (Ch 6) (Satellite of KELO-TV in Sioux Falls at Reliance) Joe Floyd, Pres.

TENNESSEE

WCYB-TV (Ch 5), P.O. Box 603, Bristol 37621; R. H. Smith, Pres. Gen. Mgr. & Film Buyer.
WDEF-TV (Ch 12), Broadcast Center, Chattanooga 37402; Ken Flenniken, Exec. V.P.
WRCB-TV (Ch 3), 900 Whitehall Rd, Chattanooga 37404; H. D. Burke, V.P., Gen. Mgr. & Film Buyer.
WTVC-TV (Ch 9), Box 1150, Chattanooga 37401; R. R. Owen, V.P., Gen. Mgr. & Film Buyer.
WBBJ-TV (Ch 7), Box 2387, Jackson 38301; Gerry Quick, Gen. Mgr. Nat & Reg. Sales Mgr.
WJHL-TV (Ch 11), 137-145 West Main St, Johnson City 37602; W. Hanes Lancaster Jr, Exec. V.P. & Gen. Mgr.
WATE-TV (Ch 6), 1306 Broadway N.E, Knoxville 37917; John McCloud, Gen. Mgr.
WBIR-TV (Ch 10), 1513 Hutchinson Ave, Knoxville 37917; John Hart, V.P. & Gen. Mgr.
WTVK-TV (Ch 26), Box 1388, Knoxville 37901; J. A. Engelbrecht, Pres. & Gen. Mgr.
WHBQ-TV (Ch 13), 485 S. Highland, Memphis 38111; D. A. Noel, Gen. Mgr. & Div. Dir.
WMC-TV (Ch 5), 1960 Union Ave, Memphis 38104; Morris Greiner Jr, Gen. Mgr. & V.P.
WREC-TV (Ch 3), Hotel Peabody Bldg, Memphis 38101; Charles B. Brakefield, Pres. & Gen. Mgr.
WLAC-TV (Ch 5), 474 James Robertson Parkway, N. Nashville 37219; T. B. Baker Jr, Exec. V. P. & Gen. Mgr.
WSIX-TV (Ch 8), 441 Murfreesboro Rd, Nashville 37210; A. D. Faust, V.P. & Gen. Mgr.
WSM-TV (Ch 4), 5700 Knob Rd, Nashville 37209; Irving Waugh, V.P. & Gen. Mgr.

TEXAS

KTXS-TV (Ch 12), Box 2997, Abilene 79604; William I. de Pourmillor, St. Mgr.
KRBC-TV (Ch 9), 4150 S. 14th St, Abilene 79605; Dale Ackers, Pres. & Gen. Mgr.
KFDA-TV (Ch 10), Cherry Ave. at Broadway, Amarillo 79105; Bill Cook, V.P. & Gen. Mgr.
KGNC-TV (Ch 4), 2000 M. Polk St, Amarillo 79107; William Clarke Jr, St. Mgr.
KVII-TV (Ch 7), Box 925, Amarillo 79105; John Styler, Man. Partner.
KHFI-TV (Ch 42), 908 West 19th St, Austin 78701; Dan Love, Exec. V.P. & Gen. Mgr.
KTBC-TV (Ch 7), Box 1209, Austin 78767; J. C. Kellam, Pres. & Gen. Mgr.
KBMT-TV (Ch 12), 1420 Calder Ave, Beaumont 77701; William G. Hill Jr, V.P., Gen. Mgr. & Film Buyer.
KFDM-TV (Ch 6), Box 5566, Beaumont 77706; M. M. Johnson, Gen. Mgr.
KJAC-TV (Ch 4), Box 3257, Port Arthur 77640; Roy Shotts, V.P. & Gen Mgr.
KWAB-TV (Ch 40), 2500 Kentucky Way, Big Spring 79720; Robert S. Galbraith Jr. St. Mgr.
KIII-TV (Ch 3), 4750 Padre Island Dr, Corpus Christi 78411; M. D. McKinnon, Exec. V.P. & Gen. Mgr.
KZTV-TV (Ch 10), Show Room Bldg, Corpus Christi 78403; Vann M. Kennedy, Pres. Gen. Mgr. & Film Buyer.
KRIS-TV (Ch 6), 409 S. Staples St, Corpus Christi 78401; T. Frank Smith, Pres. & Gen. Mgr.
KRLD-TV (Ch 4), Herald Square, Dallas 75202; Ves Box, V.P. & Gen. Mgr.
WFAA-TV (Ch 8), Communications Center, Dallas 75202; Mike Shapiro, Gen. Mgr.
KELP-TV (Ch 13), Box 12277, El Paso 79912; Gene Roth, Gen. Mgr. & Film Buyer.
KROD-TV (Ch 4), 2201 Wyoming Ave, El Paso 79903; Ed Sleighel, Gen. Mgr.
KTSM-TV (Ch 9), 801 No. Oregon St, El Paso 79902; K. O. Wyler Jr, Pres. & Gen. Mgr.
KBAP-TV (Ch 5), 3900 Barnett St, Fort Worth 76103; Roy Bacus, Gen. Mgr.
KTVT-TV (Ch 11), Box 2495, Fort Worth 76107; James Terrell, St. Mgr.
KGBT-TV (Ch 4), 1519 West Harrison St, Harlingen 78550; McHenry T. Tichenor, Pres.
KPRC-TV (Ch 2), 3014 S. Post Oak Rd, Houston 77027; Jack Harris, Pres. & Gen. Mgr.
KTRK-TV (Ch 13), 3310 Bissonet, Houston 77005; W. E. Walbridge, V.P. & Gen. Mgr.
KHOU-TV (Ch 11), Box 11, Houston 77001; J. C. Richdale Jr, V.P. & Gen. Mgr.
KGNS-TV (Ch 8), Convent & Houston Sts, Laredo 78040; Pat Miller, V.P. & Gen. Mgr.
KCBD-TV (Ch 11), 5600 Avenue A, Lubbock 79408; Joseph H. Bryant, Pres.
KLBK-TV (Ch 13), Box 1559, Lubbock 79408; Stuart W. Klein, Gen. Mgr.
KTRE-TV (Ch 9), Box 729, Lufkin 75901; Fred C. Hill, Pres. & Gen. Mgr.
KMID-TV (Ch 2), Midland 79705; Ray Herndon, Gen. Mgr. & Film Buyer.
KVKM-TV (Ch 9), Drawer K, Monahans 79756; John B. Walton Jr. Owner.
KOSA-TV (Ch 7), 1211 N. Whitaker, Odessa 79760; John Vacca, V.P. Gen. Mgr. & Film Buyer.
KCTV-TV (Ch 8), 1011 East 28th St, San Angelo 76901; Harry Mooradian, Gen. Mgr. & Film Buyer.
KENS-TV (Ch 5), Ave. E. & Fourth St, San Antonio 78205; Wayne Kearl, Pres. & Gen. Mgr.
KSAT-TV (Ch 12), 1408 N. St. Mary's St, San Antonio 78215; James Schiavone, V.P. & Gen. Mgr.
WOAI-TV (Ch 4), Navarro St, San Antonio 78205; E. V. Cheviot, V.P. & Gen. Mgr.
KCEN-TV (Ch 6), 17 Third St, Temple 76501; Rush K. Evans, V.P. & Gen. Mgr.
KLTV-TV (Ch 7), Box 957, Tyler 75702; Marshall H. Pengra, Exec. V.P., Gen. Mgr. & Film Buyer.
KWTX-TV (Ch 10), Waco 76710; M. N. Bostick, Pres., Gen. Mgr. & Film Buyer.
KRGV-TV (Ch 5), Box 626, Weslaco 78596; Jack H. Drake, Gen. Mgr.
KAUZ-TV (Ch 6), Seymour St, Wichita Falls 76309; William E. Hobbs, Pres. & Gen. Mgr.
KFDX-TV (Ch 3), Box 2040, Wichita Falls 76307; Darrold Cannan, Pres.
KBTX-TV (Ch 3) (Affiliate of KWTX-TV in Waco at Bryan).
KHTV-TV (Ch 39), 7700 Westpark Dr, Houston 77042; Crawford Rice, Mgr.
KACB-TV (Ch 3) (Satellite of KRBC-TV in Abilene at San Angelo). Dale Ackers, Pres. & Gen. Mgr.
KWEX-TV (Ch 41), P.O. Box 9225, San Antonio 78204; Emilio Nicolas, V.P. & Gen. Mgr.

UTAH

KCPX-TV (Ch 4), 130 Social Hall Ave, Salt Lake City 84111; Harald Wooley, Gen. Mgr.
KSL-TV (Ch 5), 145 Social Hall Ave, Salt Lake City 84111; L. H. Curtis, Exec. V.P. & Gen Mgr.
KUTV-TV (Ch 2), 179 Social Hall Ave, Salt Lake City 84111; Robert Temple, V.P. & Gen. Mgr.

VERMONT

WCAX-TV (Ch 3), 100 Market Square, Burlington 05451; Stuart Martin, Pres. & Gen. Mgr.

VIRGINIA

WSVA-TV (Ch 3), Rawley Pike, Harrisonburg 22801; Hamilton Shea, V.P. & Gen. Mgr.
WLVA-TV (Ch 13), 2320 Langhorne Rd, Lynchburg 24501; Thomas N. Waller, Gen. Mgr.
WTAR-TV (Ch 3), 720 Boush St, Norfolk 23510; Lee C. Kitchir, Pres.
WVEC-TV (Ch 13), 110 Third St, Norfolk 23510; Thomas Chisman, Pres. Gen. Mgr. & Film Buyer.
WAVY-TV (Ch 10), 801 Middle St, Portsmouth 23704; Theodore M. Wrobel, Pres. & Gen. Mgr.

WWBT-TV (Ch 12), 5710 Midlothian Pike, Richmond 23201; Joseph W. Timberlake Jr, V.P. & Man. Dir.
WTVR-TV (Ch 6), Box 11064, Richmond; Ed Frech, Exec. V.P. & Gen. Mgr.
WXEX-TV (Ch 8), Box 8765, Richmond 23226; George W. Campbell, V.P.
WDBJ-TV (Ch 7), Box 227, Roanoke 24002; John W. Harkrader, V.P. & Gen. Mgr.
WSLS-TV (Ch 10), Box 2161, Roanoke 24009; Horace Fitzpatrick, Exec. V.P. & Film Buyer.
WRFT-TV (Ch 27), Little Brushy Mt, Roanoke; Richard K. Burton, Gen. Mgr.

WASHINGTON

KVOS-TV (Ch 12), 1151 Ellis St, Bellingham 98225; Dave Mintz, V.P. & Mgr.
KING-TV (Ch 5), 320 Aurora Ave, Seattle 98109; Stimson Bullit, Pres.
KIRO-TV (Ch 7), 1530 Queen Anne Ave. North, Seattle 98109; Lloyd E. Cooney, Exec. V.P. & Gen. Mgr.
KOMO-TV (Ch 4), 100 Fourth Ave. North, Seattle 98109; W. W. Warren, Pres. & Gen. Mgr.
KHQ-TV (Ch 6), 4202 So. Regal, Spokane 99203; R. O. Dunning, Pres. & Gen. Mgr.
KREM-TV (Ch 2), 4103 So. Regal Spokane 99203; Eugene Wilkin, Gen. Mgr.
KTNT-TV (Ch 11), S. 11th & Grant Sts. Tacoma 98405; Max H. Bice, Gen. Mgr.
KTVW-TV (Ch 13), 5544 No. 35th St, Tacoma 98407; T. Elroy McCaw, Pres. & Gen. Mgr.
KIMA-TV (Ch 29), Radio and TV Center, Yakima 98901; Jack Reber, V.P. & Gen. Mgr.
KNDO-TV (Ch 23), 23 S. First St, Yakima 98901; Hugh Davis, Prgr. Dir. & Film Buyer.
KEPR-TV (Ch 19) (Associated with KIMA-TV in Yakima at Pasco). Studio at 2807 W. Lewis, Pasco 99301; Dale Hazen, Mgr.
KNDU-TV (Ch 25) (Associated with KNDO-TV in Yakima at Pasco), P.O. Box 2523, Pasco 99302; Bruce A. Glenn, Resident Mgr. & Sales Mgr.
KXLY-TV (Ch 4), 500 W. Boone Ave, Spokane 99201; Wayne McNulty, Gen. Mgr. (KXLY-TV also has programs repeated by satellite stations CKFB-TV in Balfour, CHMS-TV No. 1 in Crescent Valley, CHMS-TV No. 2 in Passmore and CHMS No. 3 in Perrys, all located in Canada).

WEST VIRGINIA

WHIS-TV (Ch 6), E. Cumberland Rd, Bluefield 24701; John C. Shott, Gen. Mgr. & Film Buyer.
WCHS-TV (Ch 8), 1111 Virginia St. East, Charleston 25324; George Diab, Gen. Mgr.
WBOY-TV (Ch 12), 912 West Pike St, Clarksburg 26301; N.W. Levin, Pres.
WDTV-TV (Ch 5), 240 W. Main St, Bridgeport 26330; John E. North, V.P. & Gen. Mgr.
WHTN-TV (Ch 13), 625 Fourth Ave, Huntingdon 25701; O. W. Myers, Exec. V.P. Gen. Mgr. & Nat. Sales Mgr.
WSAZ-TV (Ch 3), 201 Ninth St, Huntingdon 25701; Jack W. Lee, V.P. & Gen. Mgr.
WOAY-TV (Ch 4), Highway 21 South, Oak Hill 25901; R. R. Thomas Jr, Gen. Mgr.
WTAP-TV (Ch 15), 121 West Seventh St, Parkersburg 26102; Ron Maines, Gen. Mgr.
WTRF-TV (Ch 7), 96-16th St, Wheeling 26003; Robert Ferguson, Pres. & Gen. Mgr.

WISCONSIN

WEAU-TV (Ch 13), 1907 S. Hastings Way, Eau Claire 54701; Leo Howard, Gen. Mgr.
WFRV-TV (Ch 5), 1181 East Mason St, Green Bay 54301; Robert Southard, V.P. & Gen. Mgr.
WBAY-TV (Ch 2), 115 S. Jefferson, Green Bay 54301; Bob Nelson, Gen. Mgr.
WLUK-TV (Ch 11), Box 7711, Green Bay 54305; Thomas A. Kutchison, Gen. Mgr.
WKBT-TV (Ch 8), 141 S. Sixth St, La Crosse 54601; Howard Dahl, Gen. Mgr.
WMTV-TV (Ch 15), 615 Forward Dr, Madison 53711; Thomas E. Bolger, Exec. V.P. & Gen. Mgr.
WISC-TV (Ch 3), 4801 West Beltline Highway, Madison 53711; Ralph O'Connor, Gen. Mgr.
WKOW-TV (Ch 27), 5727 Tokay Blvd, Madison 53701; Tony Moe, Exec. V.P. & Gen. Mgr.
WISN-TV (Ch 12), 759 N. 19th St, Milwaukee 53233; James T. Butler, V.P. & Gen. Mgr.
WITI-TV (Ch 6), 5445 N. 27th St, Milwaukee 53209; Roger LeGrand, V.P. & Gen. Mgr.
WTMJ-TV (Ch 4), 720 East Capitol Dr, Milwaukee 53212; George Comte, V.P. & Gen. Mgr. Radio & TV.
WVTV-TV (Ch 18), Box 6627, Milwaukee 53216; Joseph Loughlin, St. Mgr.
WAOW-TV (Ch 9), 1908 Grand Ave, Wausau 54401; Robert Johnson, Gen. Mgr.
WSAU-TV (Ch 7), 714 Fifth St, Wausau 54401; Richard D. Dudley, Pres. & Gen. Mgr.
WAEO-TV (Ch 12), County Hwy. C at Starks Rhinelander; Alvin E. O'Konski, Pres. & Gen. Mgr.

WYOMING

KTWO-TV (Ch 2), 4200 East Second St, Casper 82601; Jack Rosenthal, V.P. & Gen. Mgr.
KFBC-TV (Ch 5), 2923 East Lincolnway, Cheyenne 82001; William C. Grove, Exec. V.P. Gen. Mgr. & Chief Eng.
KWRB-TV (Ch 10), 500 Broadway, Thermopolis 83443; Joseph Ernst, Gen. Mgr. & Chief Eng.

AMERICAN BROADCASTING COMPANIES INC.

Addr: 1330 Ave. of the Americas, New York, N.Y. 10019. **L.P:** Pres: Leonard H. Goldenson, Exec. Vice Pres: Simon B. Siegal, Vice Pres. Press Rel: Ellis Moore. Vice Pres: James Hagerty. Pres. ABC TV Netw: Elton Rule. Vice Pres. & Gen. Mgr. ABC TV Netw: I. M. Pompadur. Pres. ABC Films: Kevin O'Sullivan. Vice Pres. Programming: Martin Starger. Vice Pres. in charge of broadc. operations and engineering; Julius Barnathan. **L.P:** for ABC International Television Inc: Pres: Donald Coyle.
Owned and operated stations: WABC-TV New York; WBKB-TV Chicago; WZYZ-TV Detroit; KABC-TV Los Angeles; KGO-TV San Francisco.

COLUMBIA BROADCASTING SYSTEM INC.

Addr: 51 West 52nd St, New York, N.Y. 10019. **L.P:** Chmn. of Board: William S. Paley. Pres: Frank Stanton. Pres. CBS Broadc. Group: John A. Schneider. **L.P:** Network Executives: Vice Pres: Thomas H. Dawson. Sen. Vice Pres. Information Scs: John P. Cowden. Vice Pres. Publicity Inf: Charles Steinberg. Pres. Operations & Enginering: Edward L. Saxe. Vice Pres. Sales: Frank M. Smith Jr. Vice Pres. Gen. Sales Mgr: Carl Tillmanns. **L.P:** for CBS Television Stations Division: Pres: Robert Wood. Exec. Vice Pres. International Operations: Pres. CBS TV Services: Sam Cook Digges. **L.P:** Vice Pres. & Gen. Mgr. CBC Enterprises: Ralph M. Baruch. Pres. CBS Films: Gordon Stulberg.
Owned and operated stations: WCBS-TV, New York; WBBM-TV, Chicago; KNXT-TV, Los Angeles; WCAU-TV, Philadelphia; KMOX-TV, St. Louis.

NATIONAL BROADCASTING COMPANY

Addr: 30 Rockefeller Plaza, New York, N.Y. 10020. **L.P:** Chmn. of Board: Walter Scott. Pres: Julian Goodman. Vice Pres. Corporate Information: Robert Kasmire. **L.P:** NBC Television Network: Pres: Donald Durgin. Vice Pres. NBC-TV Programs: Mort Werner. **L.P:** NBC Enterprises Div: Pres: Raymond Wellpot. Pres. NBC-TV: Gerald Adler.
Owned and operated stations: WNBC-TV, New York; WRC-TV, Washington; WMAQ-TV, Chicago; WKYC-TV, Cleveland; KNBC-TV, Los Angeles.

THE AMERICAN FORCES RADIO AND TELEVISION SERVICE

A: Army AF: Air Force, N: Navy.

Areas	ChA	Watts /kW	Areas	ChA	Watts /kW
Adak[1]	N 8	120	Chitose[8]	AF 73	1kW
Galena[1]	AF 8	130	Misawa[8]	AF 73	600
Fo. Greely[1]	A 8	180	Pusan[9]	A 2	120
King Salmon[1]	AF 8	100	Seoul[9]	A 2	5kW
Kodiak[1]	N 8	200	+ 6 relay st's.		
Northeast Cape[1]	AF 11	50	Clark AB[10]	AF 8	80
Goose Bay[2]	AF 8	346	Okinawa[11]	AF 8	45kW
Fo. Clayton[3]	A 8	250	Asmara[12]	A 8	250
Fo. Davis[3]	A 10	250	Teheran[13]	A 8	500
Guantanamo[4]	N 8	1kW	Tripoli[14]	AF 8	500
Ramey[5]	AF 21	100	Lajes Field[15]	AF 8	180
Roosevelt Roads[5]	N 8	10	Sondrestrom[16]	AF 8	180
Iraklion[6]	AF 8	300	Thule[16]	AF 8	100
Berlin[7]	A 25	100	Keflavik[17]	N 8	250
Ramstein[7]	AF 26	3kW	Johnston Isl.[18]	AF 7	200
Spangdahlem[7]	AF 22	8kW	Midway Isl.[19]	N 4	120
			Saigon[19]	A 11	2kW

[1]Alaska; [2]Labrador; [3]Canal Zone; [4]Cuba; [5]Puerto Rico; [6]Greece; [7]Germany; [8]Japan; [9]Korea; [10]Philippines; [11]Okinawa; [12]Eritrea; [13]Iran; [14]Libya; [15]Azores; [16]Greenland; [17]Iceland; [18]Pacific; [19]Vietnam.

CENTRAL AMERICA

BARBADOS

CARIBBEAN BROADCASTING CORP. (Gov. Comm.)
Addr: P.O. Box 780, Barbados. **Te:** 92041. **Cable:** Cabroco. **L.P:** Gen. Mgr: I. Gale. Dir. Tec: G. Taylor. Sales Mgr: O. Gill.
Station: CBC-TV chA3 60/30kW — **D.Prgr:** 21.30-02.30.
TV sets: 15.000.

COSTA RICA

TELEVISORA DE COSTA RICA (Comm.)
Addr: Apt. 3876, San José. **Te:** 222233. **Cable:** Television. **L.P:** Pres: O. de Picado. Mgr: A. Carballo. Dir. Tec: G. Guzman.
Station: Rancho Redondo chA7 50/25kW. **Relay st's:** Buena Vista chA11 3.5/1.75kW, Palmira chA12 5.4/2.7 kW, Turrialba Volcano chA7 1.5/0.75kW, Golfito chA5 1.2/0.6kW. **D.Prgr:** 17.30-05.00.

R. TELEVISION TIC-TAC (Comm.)
Addr: Apt. 4666, San José. **Te:** 223334. **Cable:** Tictac.
Stations: San José chA4 75/37.5kW H. **D.Prgr:** 21.00-05.00.

CORPORACION COSTARRICENSE DE TELEVISION (Comm.)
Addr: P.O. Box 2860, San José. **Te:** 210255. **L.P:** Pres: M. Sotela Pacheco. Gen. Mgr. and Film Buyer: J. J. Ortiz Pacheco. **Station:** chA6 12/6kW (relay st. chA13 4/2kW). **D.Prgr:** 18.00-04.00.

TELESISTEMA NACIONAL S.A. (Comm.)
Addr: P.O. Box 2860, San José. **Te:** 210255. **L.P:** Pres: M. Sotela Pacheco. Gen. Mgr. and Film Buyer: J. J. Ortiz Pacheco. Dir. Tec: C. Reyes. **Station:** chA2 100/50 kW (relay st. chA13 4/2kW). **D.Prgr:** 00.00-04.00.
TV sets: 100.000.

CUBA

TELEVISION STATIONS:
Pol: H. **Call:** CM - - .

Call	ch	kW	Location
KU-TV	2	14/7	Santiago
JA-TV	2	16/8	C. de Avila
KJ-TV	3	28/14	Holguin
BF-TV	4	124/62	La Habana
J-TV	4	56/28	Camaguey
HQ-TV	5	25.4/12.7	Sta. Clara
LB-TV	5	16/8	Santiago
JL-TV	6	56/28	Camaguey
Q-TV	6	124/62	La Habana
FD-TV	7	18.8/19.4	C. de Avila
AB-TV	7	58/29	S. Cristóbal
KB-TV	7	30/5	Baracoa
LD-TV	8	10/5	Holguin
RA-TV	8	24/4	Sta. Clara
GQ-TV	9	29.3/14.17	Matanzas
GH-TV	11	42/7	Matanzas
AL-TV	12	61/30.5	P. del Rio
G-TV	13	30/15	Matanzas
KG-TV	13	24/4	Guantánamo

Television Nacional: Addr: Radiocentre, Habana.
D.Prgr: W 16.30-05.00 — **TV sets:** 250.000.

DOMINICAN REPUBLIC

RADIO TELEVISION DOMINICANA (Educ, Comm.)
Addr: P.O. Box 969, Sto. Domingo. **Te:** 9-2120. **Cable:** RATDO. **L.P:** Dir. Gen: R. L. Perello. Dir. Tec: L. Moscoso Espinosa. Film Buyer: A. de Batista. **Stations:** chA4 5/1kW H, chA9 (La Cumbre) 0.5/0.1kW.
D.Prgr: 17.00-04.00.

RAHINTEL TELEVISION (Comm.)
Addr: Centro de los Héroes, Santo Domingo. **Te:** 3-1025. **Telex:** 3460213. **L.P:** Gen. Mgr: Pedro P. Bonilla. Dir. Tec: Juán Salazar. **Stations:** chA7 (Santo Domingo) 35/17.5kW, chA11 (Santo Cerro) 5/2.5kW, chA7 (Santiago) 2.5/0.5kW+satellite (Navisa) ch70 1.5kW — **TV sets:** 100.000.

EL SALVADOR

CANAL DOS S.A. (Comm.)
Addr: Apartado Postal 720, San Salvador. **Te:** 23-6744. **Cable:** Teledos. **L.P:** Gen. Mgr. and Film Buyer: B. Eserski. Dir. Tec: F. Leal.
Station: YSR-TV chA2 100/20kW. **D.Prgr:** 17.30-20.00, 23.00-06.00.

CANAL 4 (Comm.)
Addr: Apartado Postal 1375, Salvador. **Te:** 23-1015. **L.P:** Gen. Mgr. and Film Buyer: B. Eserski. Mgr: R. Flores. Dir. Tec: F. Leal.
Stations: YSU-TV chA4 75/37kW. D.Prgr: 18.00-19.30, 23.00-05.00.
TV sets: 75.000.

GUADELOUPE

OFFICE DE RADIODIFF. TELEVISION FRANCAISE
Addr: Pointe à Pitre. **Te:** 1320. **L.P:** See radio.
Station: (System K' 625 lines): Arnouville chK'9 1/0.02 kW H, Citerne chK'5 0.5/0.1kW H. **D.Prgr:** 23.00-02.00.
TV-sets: 5.387 — **ALF:** 100 Fres.

GUATEMALA

RADIO-TELEVISION GUATEMALA S.A. (Comm.)
Addr: Apt. 1367, Guatemala. **Te:** 42492. **Cable:** Teletenango. **L.P:** Gen. Mgr. and Film Buyer: W. G. Campbell. Dir. Tec: F. Licht. **Station:** TGV-TV chA3 80/40kW H. **D.Prgr:** 18.00-06.00.

TELE ONCE (Comm.)
Addr: Ca. 20, 5-02, Zona 10, Guatemala. **L.P:** Dir: A. Mourra. Dir. Tec: C. L. Sardá. Dir. Prgr: R. Chenal L.
Station: TGMO-TV chA11 10/5kW. **D.Prgr:** 00.00-06.00.

TELEVICENTRO (Comm.)
Addr: Apt. 1242, Guatemala. **Te:** 65646. **Cable:** TVsiete. **L.P:** Dir. Gen. and Film Buyer: Dr. J. Villanueva P. Dir. of Adm: J. Archila M. Dir. Tec: M. Mazareigos.
Stations: TGAB-TV chA7 5/2.5kW H — **D.Prgr:** 20.00-04.00 — **TV sets:** 71.500.

HAITI

TELE-HAITI (Comm.)
Addr: P.O. Box 1126. Port-au-Prince. **Te:** 2278. **Cable:** Telehaiti. **L.P:** Dir. Gen: A. S. Apaid. Dir. Tec: E. C. Gentil. **Station:** 4VMR-TV chA5 2.5/0.6kW H. **D.Prgr:** 23.00-03.00 — **TV sets:** 10.500.

HONDURAS (Rep.)

COMPANIA TELEVISORA HONDURENA S.A. (Comm.)
Addr: Apt. Postal 734, Tegucigalpa. **Te:** 2-5514. **Cable:** Television. **L.P:** Dir. Gen: J. R. Ferrari. Dir. Prgr's: M. Ramirez. Dir. Tec: S. Flores.
Station: HRTG-TV chA5 4/2kW V. **Rel.St's:** HRSU-TV chA9 20kW (El Socorro), HRYA-TV chA13 7kW (San Pedro Sula). **D.Prgr:** 17.00-20.00, 23.00-05.00.
TV sets: 21.500.

JAMAICA

JAMAICA BROADCASTING CORPORATION (Comm.)
Addr: 5 South Odeon Ave, Kingston. **L.P:** See radio.
Station: Kingston chA11 28/0.14kW H. **Relay st's** (Pol: H): Coopers Hill chA7 20.5/10.25kW, Port Antonio chA8 0.16/0.8kW, Montego Bay chA11 1/0.5kW, Oracabessa chA12 1/0.5kW, Spur-Tree chA13 23/11.5kW, Yallahs chA9 1/0.5kW, Morant Point chA13 1/5kW.
D.Prgr: W 22.30-03.00, Sun 21.00-03.00.—**TV sets:** 52.661.

LEEWARD ISLANDS

LEEWARD ISLAND TELEVISION SERVICES LTD. (Comm, Gov. Participation)
Addr: P.O. Box 159, St. John's, Antigua. **Te:** 821. **L.P:** Man. Dir: W. Staskow. St. Mgr. and Film Buyer: C. Moore. Dir. Tec: S. James.
Stations: ZAL-TV chA10 22/4.5kW H. **Relays:** Montserrat chA7 1kW, Sint Maarten chA8 1kW. **D.Prgr:** 22.30-03.00. **Tests:** 21.30-22.30 — **TV sets:** 5.600.

MARTINIQUE

OFFICE DE RADIODIFF. TELEVISION FRANCAISE (O.R.T.F.)
Addr: Fort de France. **L.P:** See radio.
Stations (System K'625 lines): Fort de France chK'4 0.5kW, La Trinité chK'6 0.05kW, Le Precheur chK'6 0.05kW (planned: Morne Aca 30kW). **D.Prgr:** 23.00-02.00.
TV sets: 6.466 — **ALF:** Frcs. 100,-.

MEXICO

*) Affiliated to Telesistema Mexicano — All st's comm. exc. XEIP.

INSTITUTO POLITECNICO NACIONAL (Cult.)
Addr: Casco de Sante Tomas, Mexico D.F. **Station:** XEIP-TV chA11 5kW.

TELEVISION DE LA FRONTERA S.A.
Addr: Vicente Guerrero 704, Ci. Juarez, Chi. **Station:** XEJ-TV chA5 3.65/1.82kW H.

*) **TELEVISORA MEXICALI S.A.**
Addr: P.O. Box 1356, Mexicali, BC. **Te:** 2-28-55. **L.P:** Dir. Gen: R. Sánchez de Aparicio. Dir. Tec: E. Bezies. **Station:** XHBC-TV chA3 30/15kW H. **D.Prgr:** 23.30-08.30.

TELESISTEMA MEXICANO S.A.
Addr: Edif. Televicentro, Av. Chapultepec 18, México, D.F. **Te:** 185020. **L.P:** Pres. and Dir. Gen: E. Azcárraga V. Exec. Vice Pres: R. O'Farrill, Senr. Vice Pres: E. Azcárraga M. Vice Pres: A. R. Cabrera. Dir. of Adm: A. Azuela. Dir. Tec: J. Fdz. Arauna. Dir. of Prgrs: L. de Llano.
Stations: 1) **Cadena Canal 2:** XEW-TV chA2 (DF) 100kW H; XEQ-TV chA9 (Paso de Cortés) 325kW H; XEZ-TV chA3 (El Zamorano) 100kW; XEWO-TV chA13 (Aguascalientes) 150kW; XHAH-TV chA8 (Las Lajas); XHQ-TV chA3 (Culiacán); XHCV-TV chA3 (Coatzacoalcos); XHA-TV chA10 (Durango); XHKW-TV chA10 (Morelia); XEPM-TV chA2 (Cd. Juáraz); XHI-TV chA2 (Cd. Obregón); XHIA-TV chA2 (Torreón); XHOW-TV chA12 (Mazatlán); XHCG-TV (Los Mochis); XHFI-TV chA5 (Chihuahua); XEFB-TV chA3 (Monterrey); XHG-TV chA4 (Guadalajara); XEWH-TV chA6 (Hermosillo); XHGO-TV chA7 (Tampico); XEFE-TV (Nvo. Laredo). 2) **Cadena Canal 4:** XH-TV chA4 (DF) 100kW H; XEX-TV chA7 (Paso de Cortés) 325kW; XHZ-TV chA6 (El Zamorano) 100kW; XHAI-TV chA10 (Las Lajas). 3) **Cadena Canal 5:** XHGC-TV chA5 (DF) 100kW H; XHAJ-TV chA6 (Las Lajas) — **D.Prgr's:** For all st's: 24h.

TELEVISION INDEPENDIENTE DE MEXICO S.A.
Addr: P.O. Box 1833, Monterrey, NL. **L.P:** Dir. Gen: A. Flores Ysita. Dir. Tec: R. Rueda. Dir. Prgr: J. Alvarino. Film Buyer: A. Roque. **Stations:** Monterrey chA6 80/40kW H, Mexico chA8 316/79kW H, Puebla chA3 6/1.5kW H, Veracruz chA2 12.5/3.1kW H. **D.Prgr:** A6: 18.00-06.00; A2: 21.30-04.30; A3: 23.00-05.30.

TELEVISION DE MICHOACAN S.A.
Addr: Lejarza 90, Morelia, Mich. **Station:** XEKW-TV chA10 6kW. **D.Prgr:** 22.00-06.00.

RADIO TELEVISION S.A.
Addr: Apt. Postal 121, Tijuana, BC. **Station:** XE-TV chA6 100/50kW H. **D.Prgr:** 15 00 07.00 (incl. color TV).

TELEVICENTRO DE MONTERREY
Addr: Espinosa 780 Pte. Monterrey, NL. **Te:** 436275. **Stations:** XEFB-TV chA3 5/2.5kW H, XHX-TV chA10 5/2.5kW. **D.Prgr's:** 18.00-06.00

TELEVISION DE NUEVO LAREDO
Addr: Apartados 4, 157, 158. Nuevo Laredo, Tams. **Te:** 2182. **L.P:** Owners: R. Tijerina Carranza and Miss R. Esparza G. **Station:** XEFE-TV chA2 0 5kW — XEBR-TV chA11 1.5/0.75kW H. **D.Prgr:** 00.00 06.00.

TELEVISION TAPATIA S.A.
Addr: P.O. Box 5, Guadalajara, Jal. **Te:** 37525. **L.P:** Gen. Mgr: M. Bauche. Dir. Tec: Ing. C. Sánchez. Film Buyer: E. Meludis C. **Station:** XEHL-TV chA6 6/3kW H. **D.Prgr:** 21.00 06.00.

*) **TELEVISORA DE LA LAGUNA**
Addr: Av. Angel Urraza y Ca. F. Rodriguez, Torreon, Coah. **Station:** XELN-TV chA4 4/2kW H.

*) **TELEVISORA DE CHIHUAHUA S.A.**
Addr: Chihuahua, Chih. **Station:** XHFI-TV chA5 2/0.4 kW H.

TELEVISORA DE HERMOSILLO S.A.
Addr: P.O. Box 603, Hermosillo, Son. **Te:** 38855. **Telex:** 058828. **L.P:** Gen. Mgr: L. Herrera F. Dir. Tec: E. Alvarez P. Film Buyer: L. Herrera F. **Station:** XEWH-TV chA6 1.2/0.6kW H. **D.Prgr:** 22.00-06.00.

TELEVISORA DE OCCIDENTE S.A.
Addr: Av. Alemania 285, Guadalajara, Jal. **Te:** 44140. **L.P:** Gen. Mgr: C. Pickering J. Dir. Tec: R. Venegas R. Film Buyer: S. Espinosa. **Station:** XHG-TV chA4 5/2.5kW. **D.Prgr:** 20.30-05.30.

TELEVISORA DE GUADALAJARA
Addr: Av. Alemania 285, Guadalajara, Jal. **Station:** XEWO-TV chA2 5/2.5kW. **D.Prgr:** 20.30-06.30.

TELEVISORA DE CALIMEX
Addr: Apartado Postal 12, Tijuana, BC. **Te:** 5-9201. **L.P:** Gen. Mgr. and Film Buyer: J. M. Muñoz de Cote. Dir. Tec: M. Duenas. **Station:** XEWT-TV chA12 10/5kW H. **D.Prgr:** 00.00-07.30.

TELEVISION DEL NOROESTE
Addr: Apartado Postal 600, Nogales, Son. **L.P:** Dir. Gen: L. Guillermo C. Dir. Tec: L. Rangel. Film Buyer: J. Gomez O. **Station:** XHFA-TV chA2 8/4kW V. **D.Prgr:** 00.00-05.00.

TELEVISORA DE YUCATAN S.A.
Addr: Apt. Postal 152, Merida, Yucatan. **Te:** 19171. **L.P:** Dir. Gen: A. Garcia Lavin, C.P.T. Dir. Tec: H. Padron M. Film Buyer: F. Leon M. **Station:** XHY-TV chA3 24/6kW H. **D.Prgr:** 22.00-06.00, Sun 16.00-06.00.

TELEVISORA PENINSULAR S.A.
Addr. and L.P: As for Televisora De Yucatan. **Station:** XHTP-TV chA9 5/1kW H. **D.Prgr:** 23.00-05.00.

TELEVISORA DE CAMPECHE S.A.
Addr: Apt. Postal 152, Merida, Yucatan. **L.P:** Dir. Tec: E. Castro R. Other personnel as TV de Yucatan. **Station:** XHAN-TV chA12.

TELEVISION DE COLIMA S.A.
Addr: Anillo Circunvalación 1080 Nte. Colima, Col. **Station:** XHCC-TV chA5 1/0.5kW.

TELEVISION DEL GOLFO
Addr: Apartado Postal 751, Vera Cruz, Ver. **Te:** 2-1666. **L.P:** Dir. Gen: M. Arteaga C. Dir. Tec: C. Trejo C. **Station:** XHFM-TV chA2 14.2kW H. **D.Prgr:** 23.00-05.30.

TELE ENSENADA
Addr: Apartado Postal 1346, Ensenada, BC. **Te:** 8-1515. **L.P:** Dir. Gen: A .Badillo V. Dir. Tec: M. Perez. **Station:** XHS-TV chA23 2/1kW H. **D.Prgr:** 00.00-08.00.

UNIVERSIDAD DE SONORA
Addr: Hermosillo, Son. **Te:** 37905. **L.P:** Dir. Gen. and Dir. Tec: M. R. Canale. **Station:** XHUS-TV chA8 1.6/0.25kW H. **D.Prgr:** 02.00-05.00.

TELEVISORA DEL YAQUI
Addr: Ciudad Obregon, Son. **Te:** 3-8055. **L.P:** Dir. Gen: C. Encisco V. Dir. Tec: E. Burgos M. **Station:** XHI-TV chA2 7.86/3.93kW H. **D.Prgr:** 21.00-05.00.

Planned st's:
Corporation Mexicana de Radio y Television S.A.
Addr: Torre Latino Americana Madero 1, Mexico 1. D F. **Te:** 104670. **Station:** chA13 326/163kW.
Fomento de Television Nacional S.A.
Mexico, D.F. **Station:** chA8.
TV sets: 2.205.000.

NETHERLANDS ANTILLES

TELECURACAO
Addr: P.O. Box 415, Curação. **Te:** 13140. **Cable:** Telecuraçao. **L.P:** Man. Dir. and Film Buyer: E. C. Hernandez. Chief Eng: P. J. Hoogesteger. **Station:** chA8 2kW H. **D.Prgr:** 20.30-04.00.

TELEARUBA (Comm.)
Addr: P.O. Box 392 1A, Aruba. **Te:** 7302. **Cable:** Telearuba. **L.P:** See Telecuracao **Station:** chA12 3kW. **D.Prgr:** 22.00-04.00.
TV sets: 30.000 (Curaçao+Aruba).

NICARAGUA

TELEVISION DE NICARAGUA (Comm.)
Addr: Apt. 1505, Managua. **Te:** 2-5404. **Cable:** Tevenic. **L.P:** Gen. Mgr: R. O. Cano. Asst. Mgr: R. A. Silva. Tech. Dir: F. Cruz R. Sales Mgr: O. Miranda. **Stations:** chA6 80/40kW H, chA8 0.3/0.15kW H. **D.Prgr:** 18.00-20.15, 23.00-05.30.

TELECADENA NICARAGUENSE (Comm.)
Addr. and L.P: See TV de Nicaragua. **Station:** chA4 40/20kW H. **D.Prgr:** 21.30-04.00.

TELEVICENTRO DE NICARAGUA
Addr: Managua. **L.P:** Dir: O. Sacasa S. **Station:** YNTC-TV chA2 5/1kW.

TELEVISION COMMERCIAL
Addr: Managua. **L.P:** St. Mgr: A. Lopez. **Station:** YNLG-TV chA12 0.5/0.24kW — **TV sets:** 45.000.

PANAMA

CIRCUITO RPC-TELEVISION (Comm.)

Addr: Apt. 1795, Panama 1. **Te:** 250160. **L.P:** Pres: F. Eleta A. Gen. Mgr. and Film Buyer; J. de la Guardia Jr. Dir. Tec: L. O'Meally. **Stations:** Panama HOH21-TV chA4 288/28.8kW, Davis chA6 8/4kW, Sona chA7 7.95/3.98kW, Las Margaritas chA12 15/12.5kW (rel. chA4), Bocas del Toro chA12 10/2.5kW, Atalaya chA3 16/3.2kW. **D.Prgr:** 15.00-05.00.

TELEVISORA NACIONAL S.A. (Priv, Comm.)

Addr: Apt. 8371, Panama. **Te:** 23-1724. **Cable:** Tenesa. **L.P:** Gen. Mgr: R. G. de Paredes C. Dir. Tec: Clarence Haylett. **Stations:** HOU34-TV chA2 90/45W; Repeaters: Las Margaritas chA6 20/10kW, Altamira chA9 8/4kW, C. de Piedra chA2 1.25/0.625kW. **D.Prgr:** 16.30-05.00. **TV sets:** 108.000.

PUERTO RICO

STATIONS: All comm. exc. 2) and 5):

Call	chA	kW	Call	chA	kW
1)WKAQ-TV	2	100/20	7)WSUR-TV	9	0.83/0.537
2)WIPM-TV	3	35.5/5.37	8)WKBM-TV	11	316/53.2
3)WAPA-TV	4	53.7/8.1	9)WOLE-TV	12	17.88/3.55
4)WORA-TV	5	100/20	10)WTSJ-TV	18	302/40
5)WIPR-TV	6	53.7/5.37	11)WITA-TV	30	625/62.5
6)WRIK-TV	7	63.1/12.6			

1) **Telemundo Inc,** Box 5096, San Juan 00906.
2) **Dept. of Education,** Box 449, Mayaguez.
3) **WAPA TV Broadc. Corpo,** Box 2050, San Juan.
4) **Quality Telecasting Corpo,** Box 43, Mayaguez 00708.
5) **Dept. of Education,** Box 909, Hato Rey.
6) **Ponce TV Corpo,** Ponce International Hotel, Ponce.
7) **WSUR-TV,** Box 471, Ponce.
8) **WKBM-TV,** Box 4189, San Juan 00905. **D.Prgr:** 14.00-02.30.
9) **Western Broadc. Corpo. of Puerto Rico,** Box 2050, San Juan 00902.
10) **Tele San Juan Inc,** Box 1313, San Juan.
11) **El Imparcial Broadc. Corpo,** Apt. 2692, San Juan. **TV sets:** 405.000.

TRINIDAD AND TOBAGO

TRINIDAD AND TOBAGO TELEVISION CO. LTD.

Addr: Television House, 11B Maraval Rd, Port of Spain. **Te:** 24141. **Cable:** Television. **L.P:** Gen. Mgr: F. A. Rawlins. Chief Eng: C. D. Parris. Sales Mgr: L. Rochard. Dir. Prgr: B. Gordon.
Stations: chA13 60/30kW H, chA2 15/7.5kW (relay). **D.Prgr:** 21.30 (Sat/Sun 21.00)-04.00. **Fi:** A joint priv. enterprise between majority shareholders, Rediff. International Ltd. and Greenwood Finance Ltd, with participation by CBS and Gov.
TV sets: 42.000 — **ALF:** $20.00.

VIRGIN ISLANDS (American)

ISLAND TELERADIO SERVICE INC. (Comm.)

Addr: P.O. Box 1947, St. Thomas. **L.P:** See radio.
Station: chA10 2.5/1.25kW. **D.Prgr:** 20.00 (Sun 19.30)-03.30 — **TV sets:** 15.500.

SOUTH AMERICA

ARGENTINA

STATIONS: All st's commercial — **TV sets:** 3.000.000.

Call	chA	kW(ERP)	Call	chA	kW(ERP)
1) LS86	2	100/50	17) LV83	9	50/25
2) LT83	3	100/50	18) LU85	9	2.5/1.75
3) LT84	5	70/35	19) LT81	9	5/2.5
4) LV84	6	1/0.5	20) LU82	10	100/50
5) LS82	7	43/22.5	21) LV80	10	0.35/0.175
6) LU81	7	40/20	22) LW83	10	5/2.5
7) LU84	7	12/6	23) LS84	11	140/70
8) LV89	7	20/10	24) LW82	11	10/5
9) LW80	7	5/2.5	25) LU87	11	3/1.5
10) LW81	7	4/2	26) LV81	12	60/30
11) LU86	8	40/20	27) LS85	13	120/60
12) LV82	8	16/4	28) LT80	13	2.5/1.25
13) LV85	8	120/60	29) LT82	13	50/25
14) LS83	9	80/40	30) LU88	13	3.5/0.7
15) LU80	9	20/10	25) LU87	13	2.5/1.25
16) LU83	9	20/10			

1) Calle 36, No. 382, La Plata. **Te:** 4510. **L.P:** Dir: M. Morano. **D.Prgr:** 20.00-05.00.
2) San Lorenzo 2243, Rosario. **Te:** 45816. **L.P:** Dir: A. C. Gollán. Dir. Tec: E. J. Daumas. Film Buyer: G. Strazza. **D.Prgr:** 14.00-04.00.
3) Av. Belgrano 1055, Rosario. **Te:** 29546. **L.P:** Pres: A. Compaired. Dir. Tec: W. Spiandore. Film Buyer: A. A. Cesaretti Monti. **D.Prgr:** 13.45-04.45 (May-Dec), 14.45-03.45 (Jan-Apr).
4) Luzuriaga 360, San Rafael, Mendoza. **Te:** 2454. **L.P:** Dir: A. Espasandin. Dir. Tec: R. Valentini. **D.Prgr:** 16.00-04.00.
5) **Primera Televisora Argentina,** Av. Leandro N. Alem 735, Buenos Aires. **Te:** 32-7091. **L.P:** Dir. Gen: V. Tedin Uriburu. Dir. Tec: A. R. Spataro. **D.Prgr:** 21.00-03.00 (Relay st's in Rosario, Santa Fe and Chivilcoy).
6) **Telba S.A,** Blandengues 225, Bahia Blanca. **Te:** 29630. **L.P:** Dir. Gen: J. C. di Gregorio. Dir. Tec: O. Luis. **D.Prgr:** 16.00-04.30.
7) **Neuquén-TV.S.A,** Prolong Avda. Argentina, C.C.113, Neuquén. **Te:** 2271. **L.P:** Dir: A. J. Sánchez. Dir. Tec: H. P. Borruat. **D.Prgr:** 22.00 (Sun 21.00)-04.30.
8) **Difusora Mendoza,** Garibaldi 7, Mendoza. **Te:** 19273. **D.Prgr:** 13.30-05.00.
9) **R. Visión Jujuy S.A,** Av. de 19 de Abril 749, San Salvadore de Jujuy. **L.P:** Dir. Gen: S. Grinman. Dir. Tec: R. Francisco E. **D.Prgr:** 22.30-04.00.
10) **Tele-Siete,** Pellegrini 345, Stgo. del Estero. **Te:** 3333. **L.P:** Dir: A. Alvarez V. **D.Prgr:** 22.00-04.00.
11) **Difusora Marplatense,** Av. Luro 2907, Mar del Plata. **Te:** 23046. **L.P:** Mgr. and Film Buyer: O. Viña. Dir. Tec: J. A. Suarez. **D.Prgr:** 21.30-03.00.
12) Rivadavia 22 Este, San Juan. **Te:** 7174. **L.P:** Dir: J. E. Estornell. Dir. Tec: A. E. Lund. **D.Prgr:** 15.00-03.00.
13) **Dicor S.A,** Rosario de Santa Fe 65, Cordoba. **L.P:** Gen. Mgr: G. Gomez-Molina.
14) **Canal 9 Libertad,** Castex 3345, Buenos Aires. **Te:** 72-3075. **L.P:** Dir: A. Romay. Gen. Mgr: D. Sadrinas. Dir. Tec: D. A. Pérez. **D.Prgr:** 13.00-04.00.
15) **Telenueva,** Sarmiento 54, Bahia Blanca. **Te:** 30131. **L.P:** Dir: Sra. D. J. de Massot. Dir. Tec: F. de Beistegui. **D.Prgr:** 14.00-05.00.
16) **Comodoro Rivadavia TV,** Rawson 1459, Comodoro Rivadavia.
17) **Cuyo Televisión** S.A, San Martin 1027, Mendoza. **Te:** 49491. **L.P:** Dir. Gen: F. Alvarez H. Dir. Tec: R. Lauro. Film Buyer: C. J. Bruno. **D.Prgr:** 15.00-04.30.
18) **Gobierno de Santa Cruz,** Pasteur 54, Rio Gallegos, Sta. Cruz. **Te:** 189. **L.P:** Dir. Gen. and Dir. Tec: J. Arturo M. Film Buyer: G. Vranjican. **D.Prgr:** 22.30-03.30.
19) **TV-Resistencia S.A,** Av. Alvear 50, Resistencia, Chaco.
20) **TV Mar del Plata S.A,** Independencia 1163, Mar del Plata. **Te:** 41003. **L.P:** Dir: V. C. Madariaga. **D.Prgr:** 16.00-05.00.
21) **Universidad Nacional de Córdoba,** Rivera Indarte 170, Córdoba. **Te:** 31986. **L.P:** Dir. Gen: O. José R. Dir. Tec: H. P. Blesio. Film Buyer: J. A. Olmedo G. **D.Prgr:** 23.30-04.00.
22) **Televisora de la Universidad Nacional Tucumán,** Av. 9 de Julio 629, San Miguel de Tucumán. **Te:** 20426. **L.P:** Dir. Gen: M. Lucila Padron. Dir. Tec: N. Diaz Suarez. **D.Prgr:** 21.30-04.00.
23) **Teleonce,** Pavón 2444. Buenos Aires. **Te:** 91-9232. **L.P:** Dir: P. Simoncini. Dir. Tec: C. A. Fernández. **D.Prgr:** 11.00 (Sun 10.00)-01.30.
24) **Cortesa,** España 465, Salta. **Te:** 17960. **L.P:** Dir. and Film Buyer: M. Cornejo I. Dir. Tec: R. Gallo S. **D.Prgr:** 22.30-04.00.
25) **Servicio Oficial de Televisión,** Manzana 43, Ushuaia Tierra del Fuego. **Te:** 299. **L.P:** Dir: E. Nicolas P. Dir. Tec: A. Bozzani. **D.Prgr:** 22.00 (Sat 20.00, Sun 19.00)-03.00.
26) **Telecor S.A,** Fader 111, Cerro de las Rosas, Córdoba. **Te:** 96081. **L.P:** Dir: M. Peña. Dir. Tec: A. Blaess. Film Buyer: J. L. Romero V. **D.Prgr:** 15.00-04.00.
27) **Rio de la Plata TV,** San Juan 1172, Buenos Aires. **L.P:** Dir. Gen: J. Manuel P. Dir. Tec: Ing. F. Gavilanes. Film Buyer: J. I. Vaillant. **D.Prgr:** 10.00-04.00.
28) Calle Canal 13 no. 13, Corrientes. **Te:** 3179. **L.P:** Dir: C. A. Smith. **D.Prgr:** 21.00-04.00.
29) **Televisora Santafesina S.A,** Boulevard Gálvez 840, Santa Fé. **Te:** 29959. **L.P:** Dir: M. V. Bobbio. Dir. Tec: E. A. Trovero. **D.Prgr:** 16.00-04.00.
30) **Rio Grande TV,** Manzana 71, Rio Grande, Tierra del Fuego. **L.P:** Dir. Gen: G. Juan Videla. Dir. Tec: R. Rivarola. **D.Prgr:** 19.30 (Sat/Sun 17.30)-02.30.

BOLIVIA

EMPRESA NACIONAL DE TELEVISION BOLIVIANA, La Paz. **Station:** chA7. No details received.

BRASIL

All st's comm. exc. where indicated.

ASSOCIACAO BRASILEIRA DE EMISSORAS DE RADIO AND TELEVISAO (ABERT)
Addr: Av. Rio Branco 4, salas 901-903, Rio de Janeiro. **L.P:** See radio.

DIARIOS E EMISSORAS ASSOCIADOS
Addr: Rua S. Cabral 103, Rio de Janeiro. **L.P:** See radio.

1) **TELEVISAO NACIONAL DE BRASILIA (Gov.)**
Addr: C.P. 95, Brasilia. **Station:** chA3 2/1kW H.

2) **TELEVISAO BRASILIA**
Addr: Av. W3: Setor de Rádio e Televisão, Brasilia, D.F. **Te:** 2-9666. **Telex:** 157. **Stations:** chA6 10/5kW H. **D.Prgr:** 20.15 (Sat 18.10, Sun 17.00)-03.00.

3) **TELEVISAO ALVORADA**
Addr: Brasilia. **Station:** chA8 10/6kW H. **D.Prgr:** 15.00 (Sat/Sun 14.00)-03.00.

4) **TELEVISAO CONTINENTAL**
Addr: Rua das Laranjeiras 291, Rio de Janeiro. **Te:** 42-6419. **Station:** chA9 10/5kW H. **D.Prgr:** 21.00-04.00.

5) **TELEVISAO-RIO**
Addr: Av. Atlantica 4264, Rio de Janeiro. **Te:** 27-0047. **Cable:** Teverio. **L.P:** Dir. Gen: M. Pereira Leite. Dir. Tec: L. Aurani. Film Buyer: H. Porto. **Station:** chA13 36/18kW H. **D.Prgr:** 15.00 (Sat/Sun 14.00)-03.00. **Relay st's:** TV-Guaratinguета chA12 10/6kW, TV-Friburgo chA3 10/5kW H, TV-Volta Redonda chA8.

6) **TELEVISAO-TUPI**
Addr: Av. João Luiz Alves 13/13-Urca, Rio de Janeiro, GB. **L.P:** Dir. Gen: José Arrabal. Dir. Tec: O. Pagliari. Mgr. and Film Buyer: A. Lucena. **Station:** chA6 25/2.5 kW H (relay st's at Itatiaia, Itapeva, Campos, Guaçui, Juiz de Fora, Vitória. **D.Prgr:** 17.00 (Sat 15.00, Sun 13.00)-03.30.

7) **TELEVISAO GLOBO**
Addr: Rua Von Martius 22, Jardim Botanica, Rio de Janeiro. **Te:** 46-8110. **L.P:** Dir. Gen: W. Clark Bueno. Dir. Tec: W. da Silveira Britto. Film Buyer: J. B. de Oliveira Sobrinho. **Stations:** chA4 100/40kW H. **D.Prgr:** 15.00-04.00 (Relay st's: TV Juiz de Fora, TV Lafayette and TV Bauru).

8) **TELEVISAO EXCELSIOR DE SAO PAULO**
Addr: Rua Dona Santa Veloso 6, São Paulo, SP. **Te:** 931191. **Station:** chA9 60/30kW. **D.Prgr:** 14.30-05.00. Relay st's at Campinas (chA10), Poços de Caldas, Amparo, Itapetininga, Sorocaba, Itajubá, Casa Branca, Santa Rita, Araraquara, Bariri, Jaú, Garça, Baurú, Botacatú, Tatui, Santos (chA9), Piracicaba.

9) **TELEVISAO EXCELSIOR DE RIO DE JANEIRO**
Addr: Av. Venezuela 43, Rio de Janeiro, GB. **Te:** 23-8185. **Station:** chA2 100/25kW H. **D.Prgr:** 15.00 (Sun 12.00)-05.00.

10) **TELEVISAO GAUCHA**
Addr: C.P. 1164, Porto Alegre. **Te:** 248311. **Cable:** Ploneira. **L.P:** Gen. Mgr: M. S. Sobrinho. Mgr. and Film Buyer: J. Sirotzky. Dir. Tec: E. Guimares. **Station:** chA12 80/40kW H (+44 low power satellites). **D.Prgr:** 19.00-04.00.

11) **TELEVISAO TRIANGULO**
Addr: Rua Buriti Alegre 1069, Uberlandia, MG. **Station:** chA8 20/10kW. **D.Prgr:** 19.00 (Sun 17.00)-03.00.

12) **TELEVISAO VILA RICA**
Addr: Rua Fernandes Tourinho 818, Belo Horizonte, MG. **Station:** chA7 32/15kW H. **D.Prgr:** 20.00-03.00.

13) **TELEVISAO PAULISTA**
Addr: Rua das Palmeiras 322, São Paulo. **Cable:** Televisão. **L.P:** Dir. Gen: R. Marinho. Dir. Tec: P. C. da Silva. **Station:** chA5 14/20kW H (relay st's at Campinas, Santos, Vale do Paraiba, Itajubá). **D.Prgr:** 14.30-05.00.

14) **TELEVISAO TUPI DIFUSORA**
Addr: Bairro Sumaré, Rua Catalão 48, São Paulo. **Station:** chA4 6/3kW H. **D.Prgr:** 12.00-03.00 (relay st's: Valinhos, Campinas, Limeira, Analândia, Santa Rita, Ribeirão Preto (chA3), São Carlos, Bragança Paulista, São José do Rio Preto, Bebedouro, Colina, Barretos, Olimpia, Mirassol, Poços de Caldas, Itajubá, Brasópolis, Campos do Jordão, Itatiaia and further cities).

15) **TELEVISAO CULTURA**
Addr: Rua Sete de Abril 230, São Paulo. **Te:** 34-4181. **Station:** chA2 8/4kW H. **D.Prgr:** 14.30-04.00.

16) **TELEVISAO RECORD**
Addr: Av. Miruna 713, São Paulo. **Station:** chA7 25/12.5kW H. **D.Prgr:** 18.00-03.00 (relay st's at Valinhos chA22 50/25kW, Campos do Jordão chA17, Piracicaba chA19).

17) **RADIO TELEVISAO BANDEIRANTES**
Addr: C.P. 372, São Paulo. **Te:** 2821411. **Cable:** Radiantes. **L.P:** Gen. Mgr. and Film Buyer: J. Saad e Admon Ganem. Dir. Tec: R. Grandinetti Filho. **Station:** chA13 250/50kW H. **D.Prgr:** 15.00-05.00 (Relay: Santos chA13).

18) **TELEVISAO RIBEIRAO PRETO**
Addr: Rua São Sebastião 506, Ribeirão Preto, SP. **Station:** chA3 2kW H. **D.Prgr:** rel. TV-Tupi Difusora only.

19) **TELEVISAO-BAURU**
Addr: Rua P. Ancieta 7-41, Bauru, SP. **Station:** chA2 2/0.5kW H. **D.Prgr:** 15.00-03.00.

20) **TELEVISAO PIRATINI**
Addr: Rua 7de Setembro 1123, Porto Alegre, RGS. **L.P:** Dir. Gen: H. Gargiulo. Comm. Mgr: I. J. Tartarotti. Dir. Prgr: A. Sales. **Stations:** chA5 25/12.5kW H (relay st's at Santa Cruz do Sul, B. Gonçalves, Nova Prata, Casca-Marau, Passo Fundo, Pelotas, Osorio, Sta. Maria, São Lourenco, Bom Jesus, Torres, Cachoeira do Sul, Antonio Prado (all in RGS); also Ararangua, Sidorópolis, Criciuma and Tubarão (in SC). **D.Prgr:** 14.45 (Sat 15.00, Sun 11.55)-03.00.

21) **TELEVISAO ALTEROSA**
Addr: Rua Afonso Peña 867, Belo Horizonte. **Stations:** chA2 20/10kW H. **D.Prgr:** W 19.00-03.00, Sun 14.00-02.15.

22) **TV-BELO HORIZONTE**
Addr: Rua Rio de Janeiro 1279, Belo Horizonte, MG. **Station:** chA12 10/5kW H. **D.Prgr:** 15.00 (Sat 14.00)-03.00.

23) **TELEVISAO ITACOLOMI**
Addr: C.P. 140, Belo Horizonte, MG **Te:** 26-4202. **Telex:** 037-134. **L.P:** Dir. Gen: P. Cabral. Dir. Tec: V. P. Netto. Superint: J. O. Vaz. Film Buyer: C. Prates. **Station:** chA4 40/20kW H — **D.Prgr:** 15.00-04.00 (Sun 12.00-04.00).

24) **TELEVISAO LAFAIETE**
Addr: Conselhairo Lafaiete, MG. **Station:** chA6 10/5kW H (Relay TV Rio and TV Globo, Rio de Janeiro). **D.Prgr:** 14.30-05.00.

25) **TV MARIANO PROCOPIO**
Addr: Rua Baraode S. Nepomuceno 197, Juiz de Fora. **Station:** chA10 10/5kW. **D.Prgr:** 18.00-03.00 (Relay TV Tupi, Rio de Janeiro).

26) **TELEVISAO RADIO CLUBE PERNAMBUCO**
Addr: Av. Cruz Cabuga 394, Receife, PE. **Te:** 4-1522. **Cable:** Diarbuco. **Station:** chA6 25/15kW H. **D.Prgr:** 19.00-03.00.

27) **TELEVISAO JORNAL DO COMERCIO**
Addr: Rua do Lima 240, Recife, PE. **L.P:** Pres: P. Pessoa de Queiroz. **Station:** chA2 25/12.5kW H.

28) **TELEVISAO PARANA**
Addr: Rua J. Loureiro 119, Curitiba. **Station:** chA6 2/1kW. **D.Prgr:** 19.00-03.00.

29) **TELEVISAO PARANAENSE**
Addr: Senador Slencar Guimaräes 97, Curitiba. **Station:** chA12 10/5kW H.

30) **TELEVISAO CEARA RADIOCLUB**
Addr: C.P. 222, Fortaleza, CE. **Te:** 1-3125. **Cable:** Prenove. **Station:** chA2 3/0.6kW H. **D.Prgr:** 20.00-03.00.

31) **TELEVISAO ITAPOAN**
Addr: Rua Gomes 57, Salvador, BA. **Te:** PB/5-1143. **Cable:** Gremio. **L.P:** Dir. Gen: Dr. O. Tavares. St. Mgr: Dr. P. Nacife. Dir. Prgr: M. Augusto. **Station:** chA5 5/1kW H. **D.Prgr:** 19.00 (Sat 18.00, Sun 16.00)-03.00.

32) **TELEVISAO MARAJOARA**
Addr: Av. Gov. José Malcher 1332, Belem, PA. **Te:** 3422. **Cable:** Provan. **Station:** chA2 5/1kW H. **D.Prgr:** 20.45 (Sat 20.15, Sun 18.40)-03.00.

33) **TELEVISAO GOIANIA**
Addr: C.P. 62, Goiânia, GO. **Te:** 64041. **Cable:** Folhago. **Station:** chA4 1/0.25kW. **D.Prgr:** 19.00-03.00.

34) **TELEVISAO VITORIA**
Addr: Av. Jeronimo Monteiro 331, 10° and, Vitória, ES. **Te:** 3406. **Cable:** Ravito. **Station:** chA4 5/2.5kW H. **D.Prgr:** 21.10 (Sat 20.00, Sun 19.00)-01.00.

35) **TELEVISAO BORBOREMA**
Addr: Rua Venancio Neiva 287, Campina Grande, PB. **Te:** 1961. **L.P:** Dir. Gen: L. M. Alves. Gen. Mgr: A. F. de Sales. Dir. Tec: G. O. de Medeiros. **Station:** chA9 10/2kW H. **D.Prgr:** 21.15-02.30.

36) **TV ANHANGUERA**
Addr: Av. Goiás 31, Goiania, GO. **Stations:** chA2 2/1kW, chA9 0.5/0.25kW. **D.Prgr:** chA2 18.00-03.00, chA9 21.30-02.30.

37) **TV COROADOS**
Addr: Av. Tiradentes, Londrina, PA. **Station:** chA3 2/1kW. **D.Prgr:** 20.00-03.00.

38) **TV DIFUSORA DO MARANHAO**
Addr: Av. Pedro II 220, São Luiz, MA. **L.P:** Dir. Gen: R. E. Machado Bacelar. Film Buyer and Gen. Mgr: Dr. C. M. Bacelar. Dir. Tec: L. Cardoso de Almeida. **Station:** chA4 10/2kW. **D.Prgr:** 20.00-03.00.

39) **TV GUARANI**
Addr: R. Alvaro Muller 726, Campinas, SP. **Station:** chA3 1/0.5kW H. **D.Prgr:** 20.00-03.00.

40) **TELEVISAO MORENA**
Addr: Av. de Contorno, Campo Grande, MT (all correspondence to CP 8000, São Paulo). **L.P:** Mgr. and Dir. Tec: P. Zscharnack. Film Buyer: U. E. Zahran. **Station:** chA6 2.5/1.5kW H (+4 satellites). **D.Prgr:** 20.30-03.00.

41) **TELEVISAO CENTRO AMERICA**
Addr: Rua Barão de Melgaço 815, Cuiaba, MG (all mail to same address as under 40). **L.P:** Dir. Tec: R. M. Gusman. Film Buyer: U. E. Zahran. **Station:** chA6 2.5/1.5kW H.

42) **TV GUAJARA**
Addr: T. F. Guimaraes 348, Belém, P.A. **Station:** chA5 5/1kW. **D.Prgr:** 20.00-03.00.

43) **TV DIFUSORA PORTO ALEGRENSE**
Addr: C.P. 1474, Porto Alegre, RGS. **L.P:** Mgr: N. E. Dotti. Dir. Tec: Mattiello. Film Buyer: J. Falceta. **Station:** chA10 250/140kW H. **D.Prgr:** 18.00-03.00.

44) **TELEVISAO UBERLANDIA**
Addr: Rua Buriti Alegre 1069, Uberlandia. **L.P:** Gen. Mgr: E. Nunes Garcia. Dir. Tec: A. Maluf. **Station:** chA8 20/4kW.

45) **TV UNIVERSIDADE CANAL 11**
Addr: Rua do Hsopécio 619, Recife, PE. **Station:** chA11 10/2.5kW H.

Planned station: TV Corumbaense, chA5 (2kW), Corumba.
Other stations: TV-Iguacu, Curitiba, chA4 5kW — TV-Erexim, Erexim, chA2 1kW.
TV sets: 6.000.000.

CHILE

UNIVERSIDAD DE CHILE (Educ.)
Addr: Casilla 12985, Santiago. **Te:** 80711. **L.P:** Dir: M. Planet. St. Mgr: S. Escobar. **Station:** chA9 60/30kW V. **D.Prgr:** 21.00-03.30 (Sat/Sun 18.00-04.00).

UNIVERSIDAD CATOLICA (Non-comm.)
Addr: Alameda 340, Santiago. **Te:** 380342; Av. Brasil 2059, Valparaiso. **L.P:** Dir. Gen: E. Tironi Arce. Gen. Mgr: A. Castaneira. Dir. Tec: P. Carabal. Film Buyer: O. Barzelotti. **Station:** chA13 8/4kW H. Repeater St: Valparaiso, chA8 1/0.5kW. **D.Prgr:** 18.30-19.30, 22.30-04.00 — **TV sets:** 200.000.

COLOMBIA

INSTITUTO NACIONAL DE RADIO Y TELEVISION (INRAVISION)
Addr: Centro Administrativo Nacional, Via Eldorado, Bogotá. **Te:** 446020. **L.P:** Dir. Gen: Dr. L. E. Fonseca. Dir. Tec: Dr. J. E. Nassar. Dir. Adm: Dr. G. Rodriguez C.
Stations: Bogotá (Manjui) chA7 10/2kW H, chA9 1/0.25 kW H, chA11 1/0.25kW H; Carmen de Bolivar chA9 1/0.25kW, Jurisdicciones chA6 10/2kW H, Madroño chA9 1/0.25kW H, Manizales chA11 1/0.25kW H, Medellin chA3 10/2kW H, Monteria chA7 1/0.25kW, Neiva chA12 1/0.25kW H, Pasto chA12 1/0.25kW H, Popayán chA10 1/0.25kW, Valle del Cauca chA8 10/2 kW, Santa Marta chA2 10/2kW H, Tunja chA10 0.4/0.1kW H+18 low power satellites.
Projected: Villavicencio, S. Andrés (Isla), Cartagena, Riohacha. **D.Prgr:** 13.00-05.00 Educational TV and Commercial prgrs.

TELEBOGOTA (Official, Comm.)
Addr: Ca. 22 No. 5-91, Bogotá. **Te:** 347560. **Cable:** Protécnica. **L.P:** Dir. Gen: C. de Montejo. Dir. Tec: J. Maria C. Film Buyer: M. Calle O. **Station:** chA9 1/0.25kW H. **D.Prgr:** 22.00-04.00 — **TV sets:** 622.000.

ECUADOR

TELECUADOR S.A. (Comm.)
Addr: Casilla 5902, Guayaquil. **Te:** 22829. **Cable:** Telecuatro; Casilla 70, Quito. **Te:** 217307. **Cable:** Teleseis. **L.P:** Pres: P. Norton, Mgr: M. Luque B. (Guayaquil), J. Vargas (Quito). Mgr: G. Soriano U. Dir. Tec: Q. Rivadeneira.
Stations: Guayaquil chA4 12/6kW H, Quito chA6 2/1kW. **D.Prgr:** chA4 17.00-06.00; chA6 22.30-05.30.

LA VENTANA DE LOS ANDES (Priv, Non-comm, Cult.)
Addr: Casilla 691, Quito. **L.P:** Dir: R. B. Clark. Dir. Tec: G. Hartwell.
Station: HCJB-TV chA4 8/4kW H. **D.Prgr:** 23.00-03.45.

TELESISTEMA DEL ECUADOR (Comm.)
Addr: P.O. Box A36, Guayaquil.
Station: chA6 2/0.6kW (Guayaquil), chA3 (Cuenca). **D.Prgr:** chA6 21.00-05.30; chA3 23.00-04.00. Projected: chA3 (Ambato), chA2 (Quito).

CORPORACION ECUATORIANA DE TELEVISION (Comm.)
Addr: Casilla 1239, Guayaquil. **Te:** 522-524. **Cable:** Teledos. **L.P:** Mgr. & Film Buyer: Carlos F. Arosemena. **Station:** chA2 12/6kW. **D.Prgr:** 17.00-05.30.
TV sets: 70.000.

GUIANA (French)

OFFICE DE RADIODIFF. TELEVISION FRANCAISE (O.R.T.F.)
L.P: St. Mgr: G. Brody. Dir. Tec: C. Pierre. **Stations:** (System K' 625 lincs): Cayenne chK'4 0.1kW, Kourou chK'6 0.003kW. **D.Prgr:** 22.00 (Thurs, Sun 21.00)-01.00; Sun 21.30-01.30 — **TV sets:** 1.287 — **ALF:** 100 Frcs.

PARAGUAY

TELEVISION CERRO CORA (Comm.)
Addr: Ind. Nacional 349, 2° Piso, Of. 205, Asuncion. **Te:** 44398. **L.P:** Pres: A. Ramirez G. Gen. Mgr: R. Sanches A. Dir. Tec: F. J. Ordiz. **Station:** chA9 6/3kW. **D.Prgr:** 20.00-05.00.
TV sets: 17.000.

PERU

Cultural

Addr: Ministerio de Educación Publica, Dirección de Cultura, Lima. **Te:** 275737. **L.P:** Dir: R. Garrido M. Dir. Tec: A. E. Mousalve. **Station:** OAD-TV chA7 150/75W H.

TELEVISORA UNIVERSIDAD DE LIMA,
Addr: Ave Arequipa 1110, Lima. **Te:** 234240. **L.P:** Gen. Mgr: A. P. Sanchez C. **Station:** OAY4B-TV ch13 10/2.5kW.

Commercial

TELEVISORA AMERICA,
Addr: Montero Rosas, Lima. **Te:** 42919. **L.P:** Gen. Mgr: N. Gonzalez. Dir. Tec: D. Capella. **Station:** OAX4U-TV Lima ch4 18/9kW. Relay St: Huacho chA6.

TELEVISORA PANAMERICANA,
Addr: Av. Arequipa 1110, Lima. **Te:** 23240. **L.P:** Gen. Mgr: G. Delgado P. Dir. Tec: G. Reusens. **Station:** OAY4A-TV Lima chA5 100/25kW H. Relay st's: Arequipa ch2; Chiclayo, Chimbote, Cuzco, Piura and Trujillo (all ch5). **D.Prgr:** 16.30-05.00.

TELEDOS,
Addr: Av. Tacna 225, Lima. **Te:** 281694. **L.P:** St. Mgr. and Film Buyer: A. Prada. Dir. Tec: E. Fromcke. **Station:** OAY4C-TV Lima chA2 5/2.5kW V. **D.Prgr:** 17.00-05.00.

TELEVISORA BEGO,
Addr: Av. Manco Capac 333, Lima. **L.P:** Gen. Mgr: A. Belmont. **Station:** chA 11 7/3.5kW.

TELEVISORA EL SOL,
Addr: Av. Uruguay 355, Lima. **Te:** 35945. **L.P:** Dir. Gen. A. Pereyra. Gen. Mgr: N. Gonzales V. **Station:** OAY4F-TV chA9 10/5kW H. (Relays: Huacho chA7, Ica chA11.) **D.Prgr:** 23.30 (Sun 23.00)-05.00.

TELEVISORA CONTINENTAL,
Addr: M. de Orberoga 338, Arequipa. **Te:** 7214. **Station:** chA6 8/4kW H (Relay: Tacna chA6.) **D.Prgr:** 20.00-05.00.
TV sets: 390.000.

SURINAM

SURINAAMSE TELEVISIE STICHTING — STVS (Semi-Gov, Comm.)
Addr: Cultuurtuinlaan, Paramaribo. **Te:** 3031. **L.P:** Chmn. F. J. Pengel. **Stations** (RETMA system 525 lines): Paramaribo chA8 6/3kW (+2 relay st's at Moengo and Brokopondo). **D.Prgr:** 22.00-02.30 (approx.), Sun also 14.15-16.35.
TV sets: 25.000.

URUGUAY

SAETA (Sociedad Anonima de Emisoras de Television ye Anexos) (Comm.)
Addr: Tacuarembo 1234, Montevideo. **Te:** 46674. **Cable:** Saeta. **L.P:** Pres: R. Fontaina Sr. Vice Pres. and Gen. Mgr: J. Enrique de Feo. Dir: J. de Feo. **Station:** chA10 94/47kW H. **D.Prgr:** Mon-Fri 13.15-03.15, Sat/Sun 13.40-03.15.

SODRE (Servicio Oficial de Difusión Radio Electrica)
Addr: Boulevard Colorado 2362, Montevideo. **L.P:** See radio. **Station:** chA5 32/16kW. **D.Prgr:** 09.00-03.30.

TELEVISORA LARRANAGA S.A. (Comm.)
Addr: Enriqueta Compte y Rique 1276, Montevideo. **Te:** 25856. **L.P:** Gen. Mgr. and Film Buyer: H. Schek. Comm. Mgr: M. A. Olivencia. Dir. Tec: M. Giampietro. **Station:** CXA12-TV chA12 40/20kW H. **D.Prgr:** 12.35-03.00.

MONTE CARLO TV (Comm.)
Addr: Av. 18 de Julio 1855, Montevideo. **Cable:** Montecarlotv. **Te:** 402146. **L.P:** Dir. Gen: H. Romay Salvo. Dir. Tec: I. Facca. **Station:** CXA4-TV chA4 22/11kW. **D.Prgr:** 12.35-03.30.

RIO URUGUAY TV (Comm.)
Addr: Zorilla y Argentina, Fray Bentos. **Te:** 48. **L.P:** Dir. Gen: D. Romay Salvo. **Station:** chA12 1kW. **D.Prgr:** 21.45-03.30.

CANAL 9 DEL ESTE (Comm.)
Addr: Punta Ballena, Depto. Maldonado. **Te:** 25. **L.P:** Dir. Gen: F. Elices E. Dir. Tec: R. Casanovas. Film Buyer: O. Regazzoni. **Station:** CXA-TV chA9. **D.Prgr:** 21.00-04.00.

TELE ROCHA (Comm.)
Addr: Av. O. de los Santos 105, Rocha. **Te:** 515. **L.P:** Dir. Gen: F. Elices E. Dir. Tec: S. Pereiro. Film Buyer: M. Scherschener. **Station:** chA7 0.25/0.1kW H. **D.Prgr:** 21.30-03.30.

TELE-ARTIGAS (Comm.)
Addr: Lecueder 291, Artigas. **Te:** 47. **L.P:** Dir. Gen: L. Murillo M. Dir. Tec: L. Nicolini. **Station:** chA3 0.5kW. **D.Prgr:** 21.00-02.00.

TELEVISORA TACUAREMBO (Comm.)
Addr: 18 de Julio 244, Tacuarembo. **Te:** 148. **L.P:** Dir. Gen: Luis S. Dini. **Station:** chA7. **D.Prgr:** 21.20-03.00. **TV sets:** 220.000.

VENEZUELA

Def: 625 — **Ch:** A — **Pol:** H.

TELEVISORA NACIONAL (Gov.)
Addr: Apt. 3979, Caracas. **Te:** 545436. **L.P:** Dir. Gen: P. Francisco L. Dir. Tec: A. Burgos. **Station:** YVKA-TV chA5 400/200kW. **D.Prgr:** 21.30-04.30.

ONDAS DEL LAGO TV (Comm.)
Addr: Apartado 261, Maracaibo. **Cable:** Lagonda. **L.P:** Pres: G. Cristalino. **Station:** chA13 12/6kW H. **D.Prgr:** 18.00-04.00.

R. CARACAS TV (Comm.)
Addr: Apt. 2057, Caracas. **Te:** 418971. **L.P:** Gen. Mgr. and Film Buyer: P. Bottome. Dir. Tec: A. E. Guia. **Stations:** YVVA-TV Caracas chA2 60/30kW — Repeaters: Maracaibo chA2 66/33kW, Barquisimeto chA3 40/20kW, Barcelona chA3 100/50kW, Litoral Central chA7 10/5kW, Lago Valencia chA7 88/44, Trujillo chA7 275/137.5 W, Merida chA7 400/200 W, Táchira chA7 50/25kW, Pto. Cabello chA10 10/5kW, Carupano chA10 1/0.5kW, Falcón chA10 330/165kW, Maturin chA10 1/0.5kW. **D.Prgr:** 09.00-04.00.
Stations: under construction: Ci. Bolivar chA2, El Tigre chA10.

R. VALENCIA TV (Comm.)
Addr: Apartado 248, Valencia. **L.P:** Dir. Gen: M. Aché G. Dir. Tec: S. Serrera. **Stations:** YVXO-TV Valencia chA13 12/6kW, Caracas (repeater) YVXD-TV chA13 160/80kW. **D.Prgr:** 22.30-04.30.

CADENA VENEZOLANA DE TELEVISION (Colour TV)
Addr: Apartado 2739. Caracas. **Te:** 349571. **Cable:** Colteve. **L.P:** Dir. Gen: Dr. Martin Diaz Solis. Dir. Tec: S. E. Aguerrevere. **Stations:** YVUA-TV Caracas chA8 160/80kW; Repeaters: Barquisimeto chA7 110/55 kW, Maracaibo chA8 157/73.5kW, La Guaira chA11 6.3/3.1kW, Valencia chA11 151/75.5kW, Puerto la Cruz chA11 23/11.5kW.

VENEVISION (Comm.)
Addr: Apt. 6674, Caracas. **Te:** 722741. **Cable:** Ventel. **L.P:** Gen. Mgr: E. Cuscó. Operations Mgr: R. López G. Film Buyer: I. Klein. **Stations:** YVXA-TV Caracas chA4 90/22.5kW. Repeaters: Picacho YVXB-TV chA9 76/19 kW, Terepaima YVXC-TV chA6 65/16kW, Maracaibo YVXD-TV chA4 35/8.5kW, Litoral YVXE-TV chA9 18/4.5kW, Curiamagua YVXF-TV chA12 1.5/0.38kW, Valencia YVXG-TV chA4 0.6/0.15kW, San Cristóbal YVXH-TV chA9 3/0.75kW, Sabana Larga YVXI-TV chA7 160/40kW. **D.Prgr:** 19.00-04.00.

CANAL ONCE TV (Comm.)
Addr: la Avenide Sta. Eduvigis, Caracas. **Station:** YVPX-TV Caracas chA11 125/62.5kW H. **D.Prgr:** 20.00-03.00. **F.Pl:** chA3 100/20kW to cover Valencia, Maracay and La Victoria.
TV sets: 700.000.

CO-OPERATORS AND MONITORS

Australia: Bob Padula, 404 Mont Albert Rd, Surrey Hills, Vic. 3127.
Brazil: Gilberto A. Santos, Rua Pareto 20/204, Rio de Janeiro, G.B.-ZC-09.
Ceylon: G. V. A. Goonetilleke, Galle Walauwa, Piliyandala.
Colombia: José M. Rangel Neira, Ave 11AE. No. 10, Cucuta.
Denmark: Tor-Henrik Ekblom, Amager Landevej 2, 2770 Kastrup; Anker Petersen, Udbyvej 11, 2740 Skovlunde.
Dominican Republic: Cesar Objio, Calle Hostos 38(607), Santo Domingo.
France: G. Garnier, 152 Rue de Fremur, 49 Angers.
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Holland: A. J. van Eck, Lopikerweg Oost 101, Lopikerkapel.
Israel: Berd Bluman, Amidar 80, Drom Zahala, Tel Aviv.
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Japan: Shinichi Shiraishi, c/o Myojyo Cement Co, Itoigawa City, Niigata; Takahito Akabayashi, Tenjincho 297, Fuchu City, Tokyo 183.
New Zealand: Arthur T. Cushen, 212 Earn Str, Invercargill.
Peru: Jose Montoya-Gomez, Casilla 195, Arequipa.
So. Africa: R. Ginbey, 157 Faraday Blvd, Vanderbijl Park, Transvaal.
Switzerland: Fritz J. Waldener, Shaffhauserstrasse 67, CH-8302 Kloten.
Sweden: Arctic Radio Club, Box 3013, Växjo 3; B. Ericson, Vallingatan 23C, Borlänge 1.
Uruguay: Raul A. Taibo, Paraiso 2788, Montevideo.
U.S.A: Gordon P. Nelson, 19 Irma Avenue, Watertown, Mass. 02172; Daniel C. Ferguson, P.O. Box 8443, Coral Gables, Florida 33124; William A. Matthews, 222 Hodgson Avenue, Houston, Penna. 15342.

SET COUNT BY COUNTRY

Country *=Country	Po.	R. Rcvrs.	TV Rcvrs.
Afars and Issas	125.000	7.000	1.100
Afghanistan	15.910.000	76.000	—
Albania	2.000.000	160.000	2.100
Algeria	13.000.000	700.000	100.000
*Andorra	17.216	4.000	—
*Angola	5.165.000	94.000	—
*Argentina	23.032.000	6.000.000	3.000.000
Ascension Island	1.672	200	—
*Australia	12.000.000	2.625.900	2.461.963
Austria	7.328.000	2.100.000	1.125.500
*Azores	352.000	46.000	—
*Bahamas	150.000	75.000	—
Bahrain	195.000	55.000	—
*Barbados	251.000	57.000	15.000
Botswana	620.000	6.033	—
Belgium	9.850.000	3.219.203	1.920.846
*Bermuda	52.000	15.000	17.000
*Bolivia	4.140.00	400.000	—
*Brazil	85.660.000	5.575.000	6.000.000
Brunei	129.000	12.500	—
Bulgaria	8.401.000	2.274.256	621.250
Burma	26.390.000	398.500	—
Burundi	3.472.000	60.000	—
Cambodia	6.430.000	100.000	25.000
Cameroon	5.472.000	210.000	—
*Canada	21.000.000	14.740.000	9.000.000
*Canary Islands	1.250.000	150.000	2.500
*Cape Verde Islands	245.600	4.400	—
C. African Rep.	2.088.000	45.000	—
*Ceylon	11.743.000	435.000	—
Chad	4.000.000	55.000	—
*Chile	9.250.000	1.375.000	200.000
*Colombia	19.310.000	2.214.000	622.000
Comoro Islands	245.000	8.000	—
Congo (Brazzaville)	900.000	62.000	1.500
Congo (Dem. Rep.)	16.355.000	60.000	7.000
Cook Islands	20.600	2.000	—
*Costa Rica	1.595.000	106.000	100.000
Cuba	8.035.000	1.326.000	250.000
*Cyprus	625.000	150.000	38.000
Czechoslovakia	14.418.175	3.946.106	2.865.000
Dahomey	2.505.000	52.000	—
Denmark	4.850.000	1.452.948	1.228.000
*Dominican Rep.	3.890.000	160.000	100.000
*Ecuador	5.510.000	210.000	70.000
*El Salvador	3.155.000	400.000	75.000
Ethiopia	23.500.000	155.000	8.000
Faroe Islands	38.200	10.000	—
*Fiji	500.000	45.000	—
Finland	4.706.130	1.729.926	957.723
France	50.665.000	6.600.000	9.795.918
Gabon	475.000	50.000	500
Gambia	343.000	34.000	—
*Germany (Fed. Rep.)	60.643.900	19.219.619	15.542.780
Germany (Dem. Rep.)	17.082.000	5.780.000	4.200.000
Ghana	8.500.000	700.000	12.000
*Gibraltar	25.100	3.601	6.400
Gilbert and Ellice Isl.	55.184	2.500	—
*Great Britain	55.100.00	18.101.164	15.629.506
Greece	8.625.000	1.450.000	220.000
Greenland	40.500	7.000	—
Guadeloupe	335.000	18.500	5.387
*Guam	120.000	85.000	40.000
*Guatemala	4.800.000	216.000	71.500
Guiana	700.000	140.000	—
Guiana, French	44.000	2.706	1.287
Guinea, Rep.	3.704.000	90.000	—
Guinea, Portuguese	551.000	3.600	—
Guinea, Equatorial	270.000	70.000	—
Haiti	4.581.000	81.000	10.500
Hawaii	840.000	1.500.000	175.000
Holland	12.800.000	4.035.599	2.868.917
Honduras, Br.	116.455	43.027	—
*Honduras Rep.	2.445.000	145.000	21.500
*Hong Kong	3.880.000	716.000	130.000
Hungary	10.275.000	2.503.000	1.500.000
Iceland	201.975	62.000	33.000
India	520.000.000	9.282.349	8.717
Indonesia	111.000.000	2.500.000	71.500
*Iran	26.290.000	1.711.500	155.000
Iraq	8.444.000	185.000	176.000
Ireland	2.900.000	699.000	395.500
Israel	2.812.500	655.000	50.000
Italy	53,950,000	12.416.061	8.930.770
Ivory Coast	4.010.000	70.000	10.000

Country	Po.	R. Rcvrs.	TV Rcvrs.
*Jamaica	1.894.000	450.000	52.661
*Japan	101.200.000	23.000.000	21.500.000
Jordan	2.150.000	150.000	19.000
Kenya	9.950.000	500.000	16.000
*Korea (Rep.)	29.790.000	1.452.000	102.000
Korea (P.D.)	13.000.000	—	—
Kuwait	468.500	101.500	80.000
Laos	2.780.000	45.000	—
Lebanon	2.681.221	590.000	250.000
*Leeward Islands	175.000	5.500	5.600
Lesotho	890.000	3.000	—
*Liberia	1.111.500	152.000	6.000
Libya	1,738.000	77.000	—
Luxembourg	339.000	143.628	56.920
*Macau	290.000	8.000	—
Madeira	303.000	36.500	—
Malagasy Rep.	6.500.000	425.000	—
Malawi	4.130.000	105.000	—
Malaysia	10.071.000	427.500	123.000
Mali	4.750.000	60.000	—
*Malta	322.500	67.000	50.000
Maldive Islands	104.000	1.500	—
Martinique	350.000	29.000	6.466
Mauritania	1.500.000	50.000	—
*Mauritius	777.000	77.309	14.829
*Mexico	45.675.000	4.830.000	2.205.000
*Monaco	22.700	6.600	15.050
Mongolia (P.R.)	1.105.000	90.923	—
Morocco	14.500.000	884.481	130.391
*Mozambique	6.965.000	85.000	—
Nepal	10.500.000	50.000	—
*Neth. Antilles	215.000	112.000	30.000
New Caledonia	94.000	17.000	6.000
New Hebrides	80.328	10.000	—
New Zealand	2.776.265	659.249	610.059
*Nicaragua	1.784.000	107.000	45.000
Niger	3.547.000	80.000	—
*Nigeria	61.450.000	1.265.000	55.000
Niue Island	5.302	600	—
Norfolk Island	1.500	500	—
Norway	3.850.000	1.157.807	773.346
Pakistan	110.000.000	1.203.452	50.000
*Panama	1.352.000	226.000	108.000
Papua & New Guinea	2.185.000	65.000	—
Paraguay	2.164.500	165.000	17.000
P.R. of China	780.000.000	—	—
*Peru	12.385.000	1.815.000	390.000
*Philippines	34.656.000	1.230.000	350.000
Poland	32.483.400	5.648.287	3.389.542
*Portugal	9.496.800	1.398.407	329.259
*Puerto Rico	2.700.000	1.600.000	405.000
Reunion	420.000	70.000	15.851
Rhodesia	4.580.000	135.000	48.000
Rumania	19.540.000	2.910.000	590.000
Rwanda	3.306.000	25.000	—
*Ryukyu Islands	952.000	250.000	169.000
Sabah (Malaysia)	575.000	48.203	—
*Samoa (American)	27.500	1.000	2.000
*Samoa (Western)	143.000	22.000	—
São Tome	65.000	6.000	—
Sarawak (Malaysia)	903.000	65.000	—
Saudi Arabia	8.025.000	78.000	60.000
Senegal	3.671.000	266.500	1.000
Seychelles	47.800	10.500	—
Sierra Leone	2.440.000	35.000	3.050
Singapore	2,000.000	190.657	116.456
Solomon Islands	148.000	6,380	—
Somalia	2.660.000	45.000	—
*South Africa	18.741.000	1.500.000	—
*Southern Yemen	1.500.000	1.212.425	20.000
*Spain	32.250.000	5.000.000	3.350.000
St. Helena	4.710	575	—
St. Pierre et Miquelon	5.500	1.600	1.100
Sudan	14.355.000	20.000	35.000
*Surinam	351.000	90.000	25.000
Swaziland	392.000	12.000	—
Sweden	7.967.911	2.805.106	2.393.917
Switzerland	6.115.000	1.775.146	1.090.620
Syria	5.762.000	280.000	75.000
Tahiti	85.000	41.000	5.500
*Taiwan	13.516.000	1.427.623	300.000
Tanzania	12.250.000	135.000	—
*Thailand	33.693.000	2.767.000	221.000
Timor	540.000	2.500	—

continued on page 361

Represents the following Radio and Television Stations

		ESTIMATED STATION SET COUNT	
		RADIO RECEIVERS	TELEVISION RECEIVERS
EUROPE:			
ANDORRA (RA)	R	10,000,000	—
AFRICA:			
KENYA (VOK)	R & TV	444,718	15,000*
MAURITIUS (MBC)	R & TV	130,000	14,000*
NIGERIA (NBC-TV)	TV	—	45,000 in Nigeria, actual distribution difficult to assess
SIERRA LEONE (SLBS)	R & TV	130,000	1,500*
SUDAN (SR & TV S)	R & TV	1,000,000	25,000*
UGANDA (RU)	R	346,562	—
CARIBBEAN:			
BARBADOS (CBC)	R & TV	48,000	14,000*
HAITI (RM)	R	80,000	—
JAMAICA (JBC)	R & TV	350,000	55,000*
MONSERRAT (RA)	R	65,000	—
TRINIDAD (TT TV)	TV	—	45,000*
US VIRGIN ISLANDS			
WSTA, St. Thomas	R	30,000	—
WSVI, St. Croix	TV	—	15,000
ASIA:			
PAKISTAN (PTC)	TV	—	40,000*
MIDDLE EAST:			
ADEN (PROSYBS)	R & TV	500,000	20,000*
SHARJAH ("SAUT AS SAHIL")	R	243,000	—
FAR EAST:			
HONG KONG (HK TV B)	TV	—	200,000*
SOUTH AMERICA:			
GUYANA (GBS)	R (TV '70)	151,716	—
SURINAME (SRS)	R	80,000	—
CENTRAL AMERICA:			
PANAMA			
RADIO T.N.T.	R	225,000	—
RADIO MIA	R		

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CO-OPERATING DX-CLUBS

AUSTRALIA: Australian Radio DX Club, P.O. Box 227, Box Hill, Victoria 3127 (Publ: "Australian DX News") — **Branches** in Victoria, N.S.W, So. Australia and Tasmania — **Radio Australia Listeners' Club,** Box 428G, GPO, Melbourne.
AUSTRIA: Radio Japan Club-Wien, Heiligenstädter-Strasse 11/5/13, A-1190, Vienna (Publ: "R.J.C. Japan Journal" in German) — **Vienna News Agency,** c/o K. H. Lindenthal, Vienna XIV, Hütteldorferstr. 173
BENELUX: Benelux DX-Club, P.O. Box 7294, Amsterdam, Holland. (Publ: "Benelux DX-Club" in Dutch and English).
CANADA: R. Canada Shortwave Club, c/o CBC, International Sce, P.O. Box 6000, Montreal (monthly bulletin free to all members) — **Canadian DX-Club:** See USA.
CEYLON: Ceylonese Shortwave Listeners' Club, Galle Walauwa, Kolamunne, Piliyandala (Publ: DX-Panorama).
DENMARK: The Danish Short Wave Club International, Tavleager 31, 2670 Greve Strand. (Publ: "Shortwave News" in English and "Kortbølge Nyt" in Danish) — **The Cimbrer DX-Club,** Box 27, 9600 Aars. (Publ: "The Cimbrer DX-News" in English and Danish.)
FINLAND: Finland's DX-Club, r.f. P.O. Box 10214, Helsinki 10 (Publ: "Attention" in Swedish) — **Finland's DX-Club International,** P.O. Box 10214, Helsinki 10 (Publ: "Attention B" in English) — **Finland's Svenska DX-Förbund,** Kungsgatan 11, Ekenäs (Publ: "Frekvensnytt" distributed to all affiliated clubs*).
*) **Esbo-DX Klubb,** Morby, Esbo — *) **Jakobstad DX-Club** r.f, Storgatan 11, Jakobstad — *) **Nykarleby Radio Club** r.f, Nykarleby — *) **Petalax DX-Club,** c/o S. Björkas, Petalax — *) **Nylands DX-Club** r.f, Kungsgatan 11, Ekenäs — **Suomen DX-Kuuntelijat** r.y, P.O. Box 10454, Helsinki 10 (Publ: "DX-Kuuntelija") — **Uudenmaan Radiokerho** r.y, Hämeenkylä.
FRANCE: France DX-TV Club (Amateur Club for long distance TV reception), 30 rue Jean Moulin, 33 Villenave d'Ornon (Gironde) (Publ: "Television DX") — **Club Français des Ondes Courtes,** 18 Ave. de la Grande Ceinture, 94 Saint Maur (Publ: "France DX").
GERMANY: Assoziation Deutschsprachiger DX-er and DX-Clubs, 464 Wattenscheid, Im Steinhof 12. (Publ: "Mitteilungsblatt" fortnightly) — **Assoziation Junger DX-er,** D-6104 Jugenheim, Weinbergstr 35 (Publ: "QSO") — **Radio Canada Shortwave Club,** 305 Wunstorf/Hann, Sudetenstr. 34 — **Radio Japan Club** (Publ: "RJC-Mitteilungen"). Branches as follows: Baden-Württemberg: Joachim Hahn, 7313 Reichenbach/Fils, Kirchstrasse 24; Berlin: Jürgen Linke, 1000 Berlin 44, Hertzbergstrasse 32; Brilon: Heinz Götte, 5790 Brilon, Alexanderstrasse 25; Frankfurt: Jürgen Durst, 6000 Frankfurt 50, An den Drei Brunnen 5; Hamburg: Michael Kittner, 2050 Hamburg 80, Max-Eichholz-Ring 18; Mainz: Werner Limbach, 6500 Mainz, Hintere Bleiche 49; München: Dieter Unger, 8000 München 81, Denninger Strasse 202; Nordbayern: Erwin Winter, 8500 Nürnberg, Bismarckstrasse 43; Westfalen: Werner Lappe, 4780 Lippstadt, Esbecker Strasse 146 — **DX Club 1969,** c/o Peter Oligmüller, 3500 Kassel-Wilh, Rolandstrasse 7.
HOLLAND: Radio Communications DX-Club (founded in Sweden in 1961), Piet Heinstraat 22, Haaksbergen 7840. (Publ: From Point-to-Point bimonthly in Eng. and RCDXC Point to Point DX Guide). Genuine and active PTP-DXers are only accepted as members.
HUNGARY: Radio Budapest Shortwave Club, c/o Brody Sandor s.u. 5-7, Budapest VIII. (Publ: RBSWC DX-Bulletin).
INDIA: Deutsche Welle DX-Club, L/108/B. Adabari RLY Colony, Gauhati 12 (Assam).
JAPAN: Japanese Short Wave Club, P.O. Box 29, Sendai (Publ: "SW-DX Guide").
MALTA: National Radio Club, 138 St. Anthony Street, Balzan. (Publ: "Sigma" monthly).
NEW ZEALAND: DX Radio Association, 78 District Rd, Green Island, Dunedin. (Publ: "Tune in") — **New Zealand Radio DX League,** P.O. Box 1356, Christchurch. (Publ: "New Zealand DX-Times"). Adm. addr: P.O. Box 5165, Dunedin.
NORWAY: DX-Listeners' Club, P.O. Box 1284 Vika, Oslo 1. (Publ: DX News and Internat. Bulletin). Local branches in Oslo, Halden, Drammen, Trondheim (offers L.A, Europe, Africa, East and Pacific Diplomas).
PAKISTAN: Deutsche Welle Club Lahore, 138-c Rehman Pura Colony, Lahore 12. (Publishes a monthly bulletin).
Pakistan DX-Club, 290 Muslim Town, P.O. Jchhra, Lahore. (Publishes a monthly bulletin).
PORTUGAL: Radio Portugal DX-Club, Rua do Quelhas 21, Lisbon. (Publ: Newsheets).
SWEDEN: Riksförbundet DX-Alliansen (Swedish DX-Federation), Box 3108, S-10362 Stockholm 3. (Publ: "Eter-Aktuellt" (in Swedish) and News-letter through Radio Sweden (in English). All clubs listed below are associated to Riksförbundet DX-Alliansen: **Arctic Radio Club,** Box 3013, S-35003 Växjö 3 — **Bodens DX-Club,** Box 127, S-96101 Boden — **Burträsk DX-Club,** Box 304, S-93020 Burträsk. (Publ: "Burträsk-Nytt") — **BQ-69,** Pl 590, S-59800 Vimmerby — **Dala-Husby DX-klubb,** c/o Lågas, Smedby, S-77074 Dala-Husby — **DX-Cirkeln i Stockholm,** c/o Gustafsson, Bjursätragatan 95, S-12442 Bandhagen — **DX-Club Ornen,** c/o Andersson, Svalgatan 3, S-19141 Sollentuna — **DX-klubben Elektron,** c/o Lundqvist, Västeråsvägen 38B, S-63223 Eskilstuna. (Publ: "Electronnytt") — **DX-Club Etern,** c/o Meijer, Kronogatan 168C, S-29010 Tollarp — **DX-klubben KMB,** Box 423, S-26502 Åstorp. (Publ: "Rymdspegeln") — **DX-klubben RC,** Box 68, S-28040 Skånes Fagerhult — **DX-klubben Trio,** Längjum, S-53400 Vara. (Publ: "DKT-bulien") — **DX-Rävarna,** Box 2360, S-43033 Fjärås — **Falköpings DX-klubb,** Storgatan 44, S-52100 Falköping — **Frövi Radioklubb,** Pl 448, S-71040 Frövi. (Publ: "Hjälp för DX-are") — **Hallstahammars DX-Club,** Snevringevägen 8, S-73400 Hallstahammar. (Publ: "Eter-Nytt") — **Halmstads Kortvågsklubb,** Fack 15, S-30101 Halmstad — **Husums Radioklubb,** Box 199, S-89035 Husum — **Kalix Radioklubb,** Box 79, S-95201 Kalix 1 — **Kalmar DX-Union,** c/o Hutqvist, Örnvägen 29, S-38100 Kalmar. (Publ: "Kalmarunionen") — **Kopparbergs Radioklubb,** Fack 3, S-71401 Kopparberg — Kortvågsklubben Orren, Box 884, S-88101 Sollefteå 1 — **Landskrona DX-klubb,** Box 3003, S-26122 Landskrona. (Publ: "Rymdspegeln") — **Luleå Radioklubb,** Box 80037, S-95108 Luleå 8 — **Malmö Kortvågsklubb,** Fack 7026, S-20042 Malmö 7 — **Mälardalens Radiosällskap,** Näsby Allé 12, S-18350 Täby. (Publ: "QRG-bulletinen) — **Oskarshamns Radioklubb,** Gunnarsövägen 4, S-57200 Oskarshamn — **Ostkust DX-Club,** Furuhill, S61060 Tystberga — **Radio Teknikum,** Gla Norrvägen 6-8, S-35243 Växjö — **Ronneby DX-Club,** Box 5, S-37200 Ronneby. (Publ: "Rymdspegeln") — **Rågsveds DX-Club,** c/o Malmstedt, Essingetorget 46, S-11266 Stockholm — **Skellefteå DX-Club,** Box 3452, S-93044 Kåge — **Stockholm's DX-Club,** Taggvägen 3, S-13500 Tyresö — **Sundsvalls DX-klubb,** c/o Sundberg, Skiftesvägen 5B, S-85243 Sundsvall. (Publ: "Skvader-DX") —, **Svalans DX-Club,** Bankogårdsgatan 47, S-25260 Hälsingborg — **Sveriges Radio-klubb,** Box 5083, S-10242 Stockholm 5. (Publ: "DX-Radio") — **Teknik för Allas Eterklubb,** Box 4044, S-12704 Skärholmen 4. (Publ: Column in technical magazine: "Teknik för Alla") — **The DX-Companions,** c/o Nordin, Östervägen 18, S-17139 Solna. (Publ: "Rymdgnistan") — **Uddevalla DX-Club,** Box 213, S-45101 Uddevalla. (Publ: "Bohus DX") — **Umeå Kortvågsklubb,** Box 117, S-90101 Umeå 1 — **Wermlands Radio-Union,** Box 25, S-69101 Karlskoga. (Publ: "WRU-information") — **Vernamo Radioklubb,** Box 2003, S-33102 Värnamo — **Vox Kortvågsklubb,** Box 12062, S-60012 Norrköping. (Publ: "Vox-aktuellt") — **V-Dala DX-Klubb,** Box 3046, S-75003 Uppsala. (Publ: "Radio-Nytt) — **Växjö DX-Club,** Liedbergsgatan 14-16, S-35232 Växjö — **Österiens DX-Club:** Hörup 5, S-27020 Löderup.
SWITZERLAND: Schweizer DX-Club, Schürenstr. 3, 8903 Birmensdorf — **Swiss SW Club,** Schafhauserstr. 102, 8057 Zürich. (Publ: Swiss SW News in German).
UNITED KINGDOM: International Short Wave League, 60 White Street, Derby, England. (Publ: "Monitor") — **Trans National DX-League,** 99, East Claremont St, Edinburgh 4. (Publ: "DX-Diary") — **World DX-Club,** 16 Ena Ave., Neath, Glamorgan, Wales. (Publ: Contact).
U.S.A: North American Shortwave Association, P.O. Box 989, Altoona, Pa. 16603, the only all-SWBC club in North America, publishing "Frendx" the SWBC Journal monthly — **Association of North American Radio Clubs,** Rt. 1, Maple Road, Lake Geneva, Wis. 53147. (Publ: News-letters) — **American SWL's Club,** 16182 Ballad Lane, Huntingdon Beach, Calif. 92647. (Publ: "SWL monthly") — **Canadian DX-Club,** 4 Fox Ridge Lane, Avon, Conn. 06001 — **International Radio Club of America,** P.O. Box 605, Beaverton, Oregon 97005. (Publ: "DX-Monitor") — **National Radio Club,** P.O. Box 99, Cambridge, Mass. 02138 (Publ: "DX-News", published 34 times a year — mw only) — **Newark News Radio Club,** 215 Market Street, Newark Street, Newark N.J. 07101. (Publ: "NNRC Bulletin") — **Radio New York Worldwide Listeners' Club,** Radio New York Worldwide, New York, N.Y. 10022. (Publ: The Bulletin, monthly), all mail to Irwin Belofsky, Pres. Listeners' Club — **World-wide TV-FM DX Association,** P.O. Box 5001, Harbor Station, Milwaukee, Wis. 53204. (Publ: "VHF-UHF Digest" providing exclusive coverage of TV-FM).

RIKSFORBUNDET DX-ALLIANSEN (Swedish DX-Federation) P.O. Box 3108, S—103 62 *Stockholm 3* Sweden.

Riksförbundet DX-Alliansen bildades 1969 efter sammanslagning av DX-Alliansen och Sveriges DX-Förbund, för att samla alla svenska DX-klubbar och organisera DX-arbetet. Till klubbarna skickas regelbundet information och tips för mötesverksamheten och om framsteg på DX-området. ETER-AKTUELLT är vår medlemstidning, som utkommer 11 ggr/år med artiklar, lyssnartips, nyheter, teknisk information, byggsida m.m. Prenumerationskostnaden är 19:50år. Eter-Aktuellt prenumererar Ni på via: Eter-Aktuellt, Box 19008, 200 73 Malmö.

RIKSFORBUNDET DX-Alliansen (Swedish DX-Federation) is the controlling organization for the Swedish DX-Clubs. Eter-Aktuellt is our magazine in Swedish, and for DX-ers abroad we bi-monthly send RDXA Newsletter together with "Sweden Calling DX-ers bulletin" published by Radio Sweden.
RDXA also arrange the DX-Parliament, the biggest DX-meeting in Europe, with participants from several radiostations, radio industry and from most of the clubs. You are most welcome to take part in the 1970 DX-Parliament.
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THE EUROPEAN DX COUNCIL

is an international organization founded in 1967 in Copenhagen to establish a closer cooperation between the European DX clubs. Any European DX club having more than 20 members and being willing to participate in the activities in the Council is entitled to membership with voting rights.
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- to stay in close contact with other DX-organizations throughout the world
- to improve contacts between DX-listeners and radio stations

All European DX clubs are invited to join the Council
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For details write to:
Secretary General, European DX Council, P.O. Box 14110, Helsinki 14, Finland.

THE

Summer Supplement

(available June 1970)

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LONG & MEDIUM WAVE STATIONS

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(exc. for North America)
DECEMBER 1969
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CONVERSION TABLE

Frequency kHz=Wavelength meter

Longwave

kHz m	kHz m	kHz m	kHz m	kHz m	kHz m	kHz m	kHz m
151—1986	535—560.7	690—434.8	845—355.0	1000—300.0	1155—259.7	1310—229.0	1465—204.8
155—1935	540—555.6	695—431.7	850—352.9	1005—298.5	1160—258.6	1315—228.1	1470—204.1
164—1829	545—550.5	700—428.6	855—350.9	1010—297.0	1165—257.5	1320—227.3	1475—203.4
173—1734	550—545.5	705—425.5	860—348.8	1015—295.6	1170—256.4	1325—226.4	1480—202.7
180—1666	555—540.5	710—422.5	865—346.8	1020—294.0	1175—255.3	1330—225.6	1485—202.0
182—1648	560—535.7	715—419.6	870—344.8	1025—292.7	1180—254.2	1335—224.7	1490—201.3
185—1622	565—531.0	720—416.7	875—342.9	1030—291.3	1185—253.2	1340—223.9	1495—200.7
191—1571	570—526.3	725—413.8	880—340.9	1035—289.9	1190—252.1	1345—223.0	1500—200.0
200—1500	575—521.7	730—411.0	885—339.0	1040—288.4	1195—251.0	1350—222.2	1505—199.3
209—1435	580—517.2	735—408.2	890—337.0	1045—287.1	1200—250.0	1355—221.4	1510—198.7
218—1376	585—512.8	740—405.4	895—335.2	1050—285.7	1205—249.0	1360—220.6	1515—198.0
227—1321	590—508.5	745—402.7	900—333.3	1055—284.4	1210—247.9	1365—219.8	1520—197.4
233—1287	595—504.2	750—400.0	905—331.5	1060—283.0	1215—246.9	1370—219.0	1525—196.7
236—1271	600—500.0	755—397.4	910—329.7	1065—281.7	1220—245.9	1375—218.2	1530—196.1
245—1224	605—495.9	760—394.7	915—327.9	1070—280.4	1225—244.9	1380—217.4	1535—195.4
254—1181	610—491.8	765—392.2	920—326.1	1075—279.0	1230—243.9	1385—216.6	1540—194.8
263—1140	615—487.8	770—389.6	925—324.3	1080—277.8	1235—242.9	1390—215.8	1545—194.2
272—1103	620—483.9	775—387.1	930—322.6	1085—276.5	1240—241.9	1395—215.1	1550—193.5
281—1067	625—480.0	780—384.6	935—320.9	1090—275.2	1245—241.0	1400—214.3	1555—192.9
340—882	630—476.2	785—382.2	940—319.0	1095—274.0	1250—240.0	1405—213.5	1560—192.3
362—829	635—472.4	790—379.7	945—317.5	1100—272.7	1255—239.0	1410—212.8	1565—191.7
385—779	640—468.8	795—377.4	950—315.8	1105—271.5	1260—238.1	1415—212.0	1570—191.1
388—773	645—465.1	800—375.0	955—314.0	1110—270.3	1265—237.2	1420—211.3	1575—190.5
400—750	650—461.5	805—372.7	960—312.5	1115—269.1	1270—236.2	1425—210.5	1580—189.9
433—692	655—458.0	810—370.4	965—310.9	1120—267.9	1275—235.3	1430—209.8	1585—189.3
	660—454.5	815—368.1	970—309.3	1125—266.7	1280—234.4	1435—209.1	1590—188.7
Mediumwave	665—451.1	820—365.9	975—307.7	1130—265.5	1285—233.5	1440—208.3	1595—188.1
kHz m	670—447.8	825—363.6	980—306.0	1135—264.3	1290—232.6	1445—207.6	1600—187.5
520—576.9	675—444.4	830—361.4	985—304.6	1140—263.2	1295—231.7	1450—206.9	1605—186.9
525—571.4	680—441.2	835—359.3	990—303.0	1145—262.0	1300—230.8	1455—206.2	
530—566.0	685—438.0	840—357.1	995—301.5	1150—260.9	1305—229.9	1460—205.5	

EUROPE, AFRICA, NEAR EAST

Abbreviations:
A = Afrikaans service; Af = African service; af = assigned frequency; AFN = American Forces Network; AFRTS = Armed Forces Radio & TV Service; BFBS = British Forces Broadcasting Service; BR = Bayerischer Rundfunk; BRF = Berliner Rundfunk; BW = Berliner Welle; C = Springbook Radio; CBC = Cyprus Broadcasting Corporation; DLF = Deutschlandfunk; DS = Deutschlandsender; E = English service; EAC = Emissora do Aereo Clube; EN = Emissora Nacional; EOA = Emissora Oficial de Angola; G = General service; GAF = Greek Armed Forces Radio Station; H = Home service; HR = Hessischer Rundfunk; HW = Hansawelle; IAF = Israeli Armed Forces Radio Station; IcB = Inter-côte Basque LP = lowpower stations; N = National service; NBI = National Broadcasting Institute; NDR = Norddeutscher Rundfunk; nf = nominal frequency; PAF = Portuguese Air Force Radio Station; r = replaced by; RB = Radio Bremen; R1, 2, 3 and 4 = Radio 1, 2 etc; RDDR = Radio DDR; RDDRF = Radio DDR Ferienwelle; RMR = Radio Moscow relay station; SDR = Süddeutscher Rundfunk; SFB = Sender Freies Berlin; SWF = Südwestfunk; TRT = Turkish Radio TV Corporation; TUT = Technical University for Teachers; u.c. = under construction or testing; V = varying frequency; WDR = Westdeutscher Rundfunk.
Number or letter after the location indicates network. Berlin-Kopenick means that the transmitter is serving the Berlin area, but the exact location is Kopenick.

The information given refer to the actual situation on October 15, 1969.

kHz	kW	Country	Station/Location	kHz	kW	Country	Station/Location
151	70	Germany W	Donebach Odenwald	218	200	Norway	Oslo
155	10	Norway	Tromsö 1		50	USSR	Baku
	1200	Rumania	Brasov	227	500	Poland	Warsaw-Raszyn
	50	USSR	Moscow 1	233	1100	Luxembourg	Junglinster
164	600	France	Allouis	236	100	USSR	Leningrad 1
173	—	Germany W	Munich (VOA)	245	150	Denmark	Kalundborg
	500	USSR	Moscow 2 + 1 stn		100	Turkey	Erzurum
180	1200	Germany W	Saarlouis (Europe 1)	254	200	Finland	Lahti
182	10	Sweden	Luleå		100	USSR	Kazan/Voronezh
	240	Turkey	Ankara	263	200	Germany E	Königswusterhausen
185	750	Germany E	Oranienburg Rehmate		150	USSR	Moscow 1
191	600	Sweden	Motala Orlunda	272	400	Czechoslovakia	Uherske-Hradiste)CS1)
	50	USSR	Tbilisi	281	100	USSR	Minsk 2
200	400	Great Britain	Droitwich (R2)	340	100	USSR	Saratov
	100	USSR	Kazan/Leningrad 3	362	50	USSR	Yerevan
	100		Moscow	385	50	USSR	Kharkov
209	100	Iceland	Reykjavik	388	20	USSR	Moscow 2
	20		Eidar	400	50	USSR	Minsk 2
	150	USSR	Kiev 1	433	10	Finland	Oulu
	400	Morocco	Beni Mellal-Azilal	520	10	Austria	Innsbruck/Aldrans 1
218	1200	Monaco	Monte Carlo		10		Lienz/Liezen 1

kHz	kW	Country	Station/Location
520	0.05		2 LP
	1	Finland	Joensuu
	20	Germany W	Hannover (NDR)
	2		Braunschweig (NDR)
	0.2		4 LP (BR)
	0.25	Norway	Røros
529	20	Germany E	Schwerin (RDDR)
	500	Switzerland	Beromünster
		USSR	Cheboksary/Tula
	600	Algeria	Ain Beida
539	0.05	France	Bayonne 2
	300	Hungary	Budapest-Lakihegy
	1	Kuwait	Kuwait
548	800	Germany W	Braunschweig (DLF)
	20		Bad Dürrheim (DLF)
	50	Spain	Oviedo (RNE)
	150	USSR	Odessa
			Leningrad
	600	Algeria	Oran
	20	Zambia	Kitwe (G)
	1	Saudi Arabia	Riyadh
557	100	Finland	Helsinki 1
	10	Germany E	Greifswald (RDDR)
	1	Portugal	Faro/Guarda
	5	Rumania	Bucharest
	100	Switzerland	Monte Ceneri
	10	USSR	Volgograd
	1	Algeria	Touggourt
	10	South Africa	Cape Town (A)
	50	UAR Egypt	Cairo 3
566	0.1	Austria	Feistritz 2
	0.05		5 LP
	100/20	Germany W	Berlin (SFB)
	100	Ireland	Athlone
	25	Italy	Bologna/Caltanisetta 1
	5		Salento 1
	1	Portugal	Valença do Minho
	5	South Africa	Durban (E)
	300	Syria	Homs
575	100	Germany E	Leipzig (RDDR)
	300	Germany W	Stuttgart 1 (SDR)
	100	USSR	Riga 1
	5	South Africa	Johannesburg (C)
	50	Uganda	Kampala
	100/200	Israel	Tel Aviv
580	100	Iran	Teheran (R. Iran)
584	150	Austria	Vienna 1
	25		Klagenfurt 1
	10		Salzburg 1
	0.05		Mayrhofen 1
	5	Faeroe Isl.	Tórshavn
	4	France	Paris-Romainville
	200	Spain	Madrid (RNE)
		USSR	Ijevsk
	2	Rhodesia	Salisbury (E)
	2	Tanzania	Zanzibar City
588	1000	Saudi Arabia	Riyadh
593	200	Bulgaria	Sofia-Pleven
	150/400	Germany W	Frankfurt-Weiskirchen (HR)
	100		Hoher-Meissner (HR)
	150	Sweden	Sundsvall
	10	USSR	Ordzonikidze
	1	Malawi	Lilongwe
	100	Morocco	Oujda A
	10/250	Nigeria	Kaduna (RTVK)
	5	S. Africa	Bloemfontein (A)
602	150/250	France	Lyon-Tramoyes
	5	Germany E	Karl-Marx-Stadt (BRF)
			Warnemünde (RDDR)
	10	Nigeria	Abafon (WNBS)
	8	Reunion	Saint Denis (ORTF)
	2	S. Africa	East London (C)
	5	Tunisia	Sfax 2
	50	UAR Egypt	Beni Suef
	20	Cyprus	Nicosia (CBC)
610	2	Bahrain Isl.	Manama
611	250	Germany E	Berlin-Uhlenhorst (BRF)
	10	Germany W	Grafenwöhr/Kaiserslaut./ Nürnberg (AFN)
	100	USSR	Petrozavodsk
	20		Krasnodar
	100	Yugoslavia	Sarajevo
	100	Kenya	Nairobi (N)
	140	Morocco	Sebaa Aioun
	2	Rhodesia	Gwelo
620	150	Belgium	Brussels-Wavre 1
	10	Portugal	Vila Real Tras-os-Montes
	100	Canary Isl.	S. Cruz de Tenerife (RNE)

kHz	kW	Country	Station/Location
620		Nigeria	Enugu
	5	S. Africa	Grahamstown (E)
	450	UAR Egypt	Al Mansurah-Batra
629	25	Austria	Dornbirn/Innsbruck 2
	1		Lienz 2
	20	Germany E	Erfurt (RDDR)
	100	Norway	Vigra
	30	Rumania	Timisoara
	10	Liberia	Monrovia (ELBC)
	600	Tunisia	Tunis (Djedida)
	2	Zambia	Lusaka (H)
	10	Cyprus	Nicosia (R. Bayrak)
630	0.25	Iran	Teheran (AFRTS)
638	300	Czechoslovakia	Prague-Liblice 1
	100	Spain	La Coruña (RNE)
	5	Nigeria	Benin
	5	S. Africa	Johannesburg (E)
	2	Uganda	Mbale
	100	Cyprus	Limassol (BBC Relay)
645	100	Iran	Tabriz
647	150	Great Britain	Daventry (R3)
	2		Edinburgh/Glasgow Newcastle/Redmoss
	100	USSR	Simferopol
	50	Saudi Arabia	Jidda (V)
	300	Turkey	Mersin-Cukurova
650	0.3	Azores	Lajes Field (PAF)
656	20	Germany E	Potsdam (BRF)
	120	Italy	Florence/Naples 1
	35		Turin 1
	25		Bolzano/Venice 1
	150	USSR	Murmansk
			Grozny
	10	Nigeria	Ibadan
	50	Spanish Sahara	El Aaiún (EAJ 203)
	10	S. Africa	Cape Town (E)
	100	Tanzania	Dar Es Salaam
	100	Israel	Tel Aviv
660	20	Afghanistan	Kabul
665	300	Germany W	Rohrdorf (SWF)
	15	Greece	Athens 3
	5	Iceland	Höfn
	135	Portugal	Lisbon 1
	100	USSR	Vilnius 1
	4	Reunion	St. Pierre (ORTF)
	5	S. Africa	Pietermaritzburg (A)
	50	Syria	Damascus-Sabburah
674	0.05	Austria	9 LP
	150	France	Marseille 1
	10	Norway	Bodö
	100	USSR	Chernovtsy
	100	Libya	El Gawarsha
	1	Malawi	Mzimba
	5	S. Africa	Bloemfontein (E)
	10	Qatar	Ad Dawhah
677	20	Israel	Jerusalem-Ramallah
680	100	Iran	Rasht
683	100	Germany W	Berlin-Britz (RIAS)
	40		Hof-Saale (RIAS)
	250	Spain	Sevilla (RNE)
	400	Yugoslavia	Belgrade
	10	Mauritius	Forest Side-Malherbes
	2	Rhodesia	Bulawayo (E)
	2	S. Africa	East London (E)
692	250	Germany E	Suhl-Wachenbrunn (DS)
	150	Great Britain	Moorside Edge (R4)
	2		Whitehaven (R4)
	1	Portugal	Viseu (EN)
	100	USSR	Ufa 3
	4	Algeria	Algiers 3
	5		Michelet
	1	Malawi	Karonga (T-872)
	5	S. Africa	Durban (A)
	20	Cyprus	Nicosia-Athalassa (CBC)
701	280	Andorra	La Vieja (R. Andorra)
	100	Czechoslovakia	Banská Bystrica
	30		Praha-Zbraslav
	2		6 stns
	5	Germany W	Flensburg (NDR)
	5		Aachen (WDR)
	2		4 stns (NDR-WDR)
	20	Norway	Finnmark
	5	Angola	Luanda (EOA)
	140	Morocco	Sebaa Aioun B
	5	S. Africa	Grahamstown (A)
	750	Sult of Oman	Masirah Isl. (BBC Relay)
	150	Turkey	Istanbul (TRT)
705	50	Saudi Arabia	Jidda
709	100	UAR Egypt	Asyut 2 (V)
710	150	France	Rennes
	150	USSR	Donetsk/Tallin

kHz	kW	Country	Station/Location
710	1	Liberia	Monrovia (ELWA)
	2	Rhodesia	Gwelo (Af)
	1	Israel	Jerusalem
719	150	Germany W	Munich- Holzkirchen (RFE)
	100	Portugal	Porto 1
	150	Sweden	Östersund
	5	S. Africa	Johannesburg (A)
	100	Tunisia	Sfax A
	100	Cyprus	Limassol (BBC Relay)
726	10	Iran	Mashad (V)
728	25	Austria	Klagenfurt 2
	250	Germany E	Schwerin-Wöbbelin (DS)
	150	Greece	Athens 1
	10	S. Africa	Cape Town (C)
	10	Uganda	Kampala
737	40	Germany W	Hof-Saale (RIAS)
	5	Iceland	Akureyri
	300	Poland	Poznan
	250	Spain	Barcelona (RNE)
	50	Mozambique	Lourenço Marques A
	100	UAR Egypt	Asyut
	200	Israel	Tel Aviv
	1	Trucial Amir.	Sharjah
746	30	Bulgaria	Plovdiv
	20	Germany E	Cottbus-Hoyerswerda (RDDR)
	120	Holland	Lopik 1
		USSR	?
	1	Algeria	Tlemcen
	100	Kenya	Nairobi
	0.1	Liberia	Buchanan (R. Lamco)
	100	Syria	Aleppo-Sarakeb
755	20	Finland	Kuopio
	200	Germany W	Königslutter (DLF)
	100		Ravensburg (DLF)
	135	Portugal	Lisbon 2
	135	Rumania	Timisoara
	10	Malawi	Blantyre
	50	South Yemen	Steamer Point (SYBS)
759	5	São Tomé	São Tomé (R. Clube)
760	300	Iraq	Baghdad-Salmon Pak
764	250	Switzerland	Sottens
		USSR	Odessa
	200	Sénégal	Dakar-Rufisque 2
	5	S. Africa	Pietermaritzburg (E)
	100	Sudan	Omdurman
773	1	Austria	Salzburg 2
	0.05		15 LP
	30	Bulgaria	Sofia-Stolnik
	20	Spain	San Sebastian (RNE)
	150	Sweden	Stockholm
	2		Malmberget
	0.05	Switzerland	2 LP
	0.7	Yugoslavia	B. Manaster
	0.05		Sljeme/Zagreb 2
	20	USSR	Voronezh
	500	UAR Egypt	Cairo-Abis
774	0.05	Yugoslavia	Varazdin
777	100	Iran	Zehedan
782	250	Germany E	Burg (DS)
	100	Portugal	Porto-Miramar
	100	USSR	Kiev
	1	Vatican	Vatican City
	2	Yugoslavia	Rijeka/Karlovac/Split 2
	5	S. Africa	Bloemfontein (C)
	600	Syria	Tartus
791	100	France	Limoges
	50	Greece	Salonika (VOA-NBI)
		USSR	Astrakhan
	20	Kenya	Mombasa
791	1	Rhodesia	Gatooma (E)
	2	S. Africa	East London (A)
800	50/100	Germany W	Nürnberg-Dillberg 1 (BR)
	0.5	Portugal	Regua (R. Alto Douro)
	20	Spain	Madrid (R. Madrid)
	100	USSR	Leningrad 2
	5	S. Africa	Durban (C)
	200	Jordan	Amman
809	5	Germany W	Berlin (BBC Relay)
	100	Great Britain	Burghead/Westerglen (R4)
	5		Redmoss (R4)
	2		Dumfries (R4)
	5	Spain	Sevilla
	10	USSR	Kuybyshev
	135	Yugoslavia	Skopje-Madjari
	0.05		Sibenik/Vinkovci
	5	S. Africa	Grahamstown (C)
818	400	Andorra	La Vieja (Sud Radio)
818	25	Italy	Trieste 1
	300	Poland	Warsaw-Mokotow 2
	1	Morocco	Rabat A
	450	UAR Egypt	Al Mansurah-Batra
	2	Zambia	Lusaka (G)
827	100	Bulgaria	Sofia-Wakerel
	40	Germany W	Freiburg (SWF)
	3		Kaiserslautern/Trier (SWF)
	1.5/0.5		Baden-Baden/Koblenz (SWF)
	5	Spain	Barcelona (R. Barcelona)
	20	USSR	Gorkiy
	0.01	Yugoslavia	Dubrava
	100	Morocco	Oujda B
	5	S. Africa	Johannesburg (A)
833	1	Libya	Benghazi (BFBS)
836	1	Azores	Ponta Delgada
	10	Finland	Ylivieska
	150	France	Nancy
	2	Spain	Granada (ECS5)
	2		Huelva (EFJ51)
	2		Palencia (EFE4)
		USSR	Kharkov/Vinnitsa
	1.25	Tanzania	Dar Es Salaam
	100	Lebanon	Beirut-Amchitt
838		Congo D.R.	Kinshasa
845	150	Italy	Rome 2
	10	USSR	Elista/Kazan
	5	S. Africa	Pietermaritzburg (C)
	1	Israel	Safad
850	0.03	Turkey	Adana (AFRTS-R. Incirlik)
854	100	Germany W	Berlin-Britz (RIAS)
	150	Rumania	Bucharest-Tincabesti
	125	Spain	Murcia (RNE)
	0.05	Yugoslavia	Gola
	0.05	Algeria	Setif
	100	Ethiopia	Harar
	1	Rhodesia	Fort Victoria (E)
	5	Jordan	Amman
863	30	Bulgaria	Blagoevgrad
	250	France	Paris-Villebon
	100	USSR	Yerevan
	1	Yugoslavia	Sisak
	5	S. Africa	Pietersburg (A)
	10	Syria	Damascus
872	150	Germany W	Frankfurt (AFN)
	36	Hungary	Budapest-Lakihegy
	30	Spain	Zaragoza (EAJ101)
	150	USSR	Moscow 3/Perm
	100	Ethiopia	Addis Ababa
	10/50	Mozambique	Beira (u.c.)
	50	UAR Egypt	Cairo 5
881	100	Germany E	Königswusterhausen (RDDR)
	100	Great Britain	Washford (R4)
	10		Penmon (R4)
	5		Towyn (R4)
	2		Wrexham (R4)
	20	USSR	Stavropol
	100	Yugoslavia	Titograd
	0.05		4 LP
	10	Swaziland	Mbabane
	0.05	Israel	Biet Hillel
	10	Yemen	Sana
890	20	Austria	Linz-Freinberg 2
	10	Norway	Bergen/Kristianstad/ Tröndelag
	100	USSR	Uzhgorod
	200	Algeria	Algiers-Ouled Fayet
	2	Rhodesia	Salisbury (Af)
	7.5	Cyprus	Zyyi (BFBS)
	100	Saudi Arabia	Damman
895	10	Canary Isl.	Santa Cruz de Tenerife (V)
		Iran	Teheran 3
899	150	Italy	Milan 1
	50	USSR	Yoshkar Ola
	2	Lesotho	Maseru
	1	Malawi	Fort Johnston (r-539)
904	10	Iran	Razayeh
908	250	Germany E	Burg/Magdeburg
	140	Great Britain	London (R4)
	7	Rumania	Miercurea Ciuc
	1	Malawi	Nkhota-kota
	200	Iraq	Baghdad-Abu Ghurayb
917	35	Germany E	Reichenbach (BRF)
	12	Spain	Madrid (EAJ2)
	50	USSR	Makhachkala
	135	Yugoslavia	Ljubljana

kHz	kW	Country	Station/Location
917	5	Morocco	Tetuan C
	100	Mozambique	Lourenço Marques B
	2	Cyprus	Paphos-Coral Bay (CBC)
926	150	Belgium	Brussels 2
		USSR	Ivanovo
	20	Yugoslavia	Nis
	1/0.05		4 LP
	10	UAR Egypt	Cairo 4 (V)
	100	Turkey	Izmir (TRT)
935	250	Germany E	Burg/Magdeburg
	10	Germany W	Berlin (AFN)
	300	USSR	Lvov
	100	Morocco	Agadir A
	0.25	Mozambique	Quelimane
944	0.05	Austria	Unzmarkt 1
	100	France	Toulouse 1
	5	Greece	Larissa (GAF)
	20	USSR	Rostov on Don
	50	Ethiopia	Asmara
	10	Syria	Damascus
953	150	Czechoslovakia	Brno
	30		Plzen
	3		Kosice
	20	Spain	Madrid (EAJ29)
	20	Canary Isl.	Las Palmas (EAJ50)
	5	Kenya	Kisumu
	0.1	Liberia	Nimba (R. Lamco)
959	30	Syria	Deir-el-Zor
960		Sudan	Omdurman
962	0.05	Austria	10 LP
	100	Finland	Turku 1
	5/10	France	Paris (R. Culturelle/R. Sorbonne/R. Clube d'Essai)
	0.05	Switzerland	Prutz
	0.25	S. Africa	Kimberley (C)
	100	Tunisia	Tunis-Djedida 2
963	2	Turkey	Istanbul
971	300	Germany W	Hamburg (NDR)
	40		Oldenburg (NDR)
	5		Bonn (WDR)/Göttingen (NDR)
	3		Kleve (WDR)
	150	USSR	Kiev
	20		Kalinin
	1	Botswana	Gaberones
	1	Morocco	Marrakech
	5	UAR Egypt	Cairo
976	5	UAR Egypt	Asyut
980	10	Italy	Trieste A
	150	Sweden	Gothenburg
	200	Algeria	Algiers-Ouled Fayet 1
	1	Rhodesia	Umtali (E)
985	100	Iran	Kermanshah
989	300	Germany W	Berlin-Britz (RIAS)
	50	Spain	Madrid-Majadahonda (RNE)
	1	Ethiopia	Addis Ababa (ELTF)
	5	S. Africa	Pietersburg (C)
	10	Lebanon	Beirut-Amchitt
990	1	Libya	Wheelus Field (KVOH)
998	10	Germany W	Heidelberg 1 (SDR)
	0.2		Buchen 1 (SDR)
	0.08	Great Britain	Hasslington (Univ. R. York)
	100	USSR	Kishinev
	10	Cameroon	Yaoundé (R. Yaoundé)
	100	Rhodesia	Gwelo
	10	Spanish Sahara	Villa Cisneros (EAJ202)
1000	60	Yemen	Taiz
1007	50	Greece	Corfu (NBI)
	120	Holland	Lopik 2
	10	Spain	Malaga (RNE)
	150	Yugoslavia	Belgrade 3
1010	1	Angola	Luanda (CR6RB) (af-944)
1016	300	Germany W	Mainz-Wolfsheim (SWF)
	1	Algeria	Batna
	1	Morocco	Tangier B
	100	USSR	Baku
1025	100	Austria	Graz/Linz 1
	10		Dornbirn-Lauterach 1
	5		Maria Pfarr 1
	0.05		10 LP
	5	Spain	San Sebastian (EAJ8)
	5		Badajoz (ECS2)
	2		Barcelona (EFJ15)
	1	Morocco	Rabat B/Safi A
	1.3	Tanzania	Dar Es Salaam
	100	Israel	Tel Aviv-Qadim
1033	2	Turkey	Izmir
1034	1	Germany W	Karlsruhe (AFN)
	0.25		2 LP
	50	Italy	Milan 2
	25		Naples 2/Venice 2
	10		Genoa 2
	5		Pescara/San Remo 2
	1		Caltanisetta 2
	50	Portugal	Lisbon-Parede (CSB2)
	100	USSR	Tallin
	1	Port. Guinea	Bissau (CQM)
	5	S. Africa	Johannesburg (E)
1043	10	Belgium	Liège-Aye 2
		Germany E	Dresden-Wilsdruff (RDDR)
	5	Greece	Salonika (NBI)
	100	USSR	Tbilisi
	25	Morocco	Sebaa Aioun C
	10/15	Mozambique	Beira (u.c.)
	2	S. Africa	Port Elizabeth (A)
1052	0.05	Austria	9 LP
	5	Germany E	Suhl (RDDR)
			Putbus (RDDR)
	100	Great Britain	Start Point (R4)
	2		Barnstaple (R4)
	50	Rumania	Iasi-Bacau
	50	Libya	Tripoli (LBS)
	20	Morocco	Tetuan A
1060		UAR Egypt	Cairo 6
1061	60	Denmark	Kalundborg 2
		Greece	Joannina (GAF)
	10	Italy	Cagliari 1
	2		Catania/Udine/Verona 1
	1		Leghorn 1
	50	Portugal	Vila do Conde
	50	USSR	Saransk
	0.1/0.05	Yugoslavia	Kapela/V. Toplice
	300	Turkey	Diyarbakir (TRT)
1063	2	Turkey	Ankara 2 (TRT)
1070	100	France	Paris 2
		Greece	Mesolongion (NBI)
	20	USSR	Dnjepropetrovsk
	0.25	S. Africa	Kimberley (E)
	20	Zambia	Kitwe (H)
1079	5	Germany E	Plauen (BRF)
	100	Germany W	Bremen (HW-RB)
	2		Bremerhaven (RB)
		Greece	Horestias (GAF)
	60	Poland	Katowice
	25	Spain	Valencia (RNE)
	6	Yugoslavia	Koper
	1	Algeria	Souk Ahras
	1	Morocco	Casablanca A
	5	Mozambique	Lourenço Marques D
	5	UAR Egypt	Al Minya/Luxor
1084	10	Cyprus	Nicosia (R. Bayrak)
1088		Albania	Tirana-Kashari
	0.05	Austria	3 LP
	150	Great Britain	Droitwich (R4)
	7.5		Postwick (R4)
	20	USSR	Perm
	1/50	Angola	Luanda (CR6RZ)
	20	Nigeria	Lagos
1090	1	Iran	Kerman
1095		Saudi Arabia	Dhahran (Aramco Radio)
1097	150	Czechoslovakia	Bratislava-Kostolany
	2	Spain	Cabra (ECS12)
	20		Madrid (EFE14)
	5		San Sebastián (EFE23)
	2		Sama de Langreo (EFJ41)
	2	Turkey	Gaziantep (TRT)
	20	Canary Isl.	Las Palmas (ECS4)
	2	S. Africa	Pretoria (A)
	1	Israel	Haifa
1100	0.5	Cyprus	Gazi Baf (R. Bayrak)
1100	10	Iran	Isfahan
1106	100	Germany W	Munich-Ismaning (AFN)
	2	Spain	Alcoy (EAJ12)
	2		Huesca (EAJ22)
			Antequera (EAJ26)
	2		Barcelona (EAJ35)
	2		Linares (EAJ37)
	2		La Coruña (EAJ41)
	2	Spain	Manresa (EAJ51)
	2		Badajoz (EAJ52)
	2		Salamanca (EAJ56)
	3		Orense (EAJ57)
	2		Victoria (EAJ62)
	2		León (EAJ63)
	100	USSR	Vilnius 2

kHz	kW	Country	Station/Location
1106	5	Cameroon	Douala
	0.5	Kenya	Nyeri
	2	Morocco	Ceuta (Sp. Enclave) (EAJ46)
1115	50	Italy	Bari/Bologna 2
	25		Pisa 2
	6		Trieste 2
	5		Messina 2
	2		Aosta 2
	1/0.2	Norway	7 LP
			Kaliningrad
	1	Angola	Carmona (CR6RE)
	10	Morocco	Tangier A
	5	S. Africa	Pietersburg (E)
		UAR Egypt	Cairo
1124	0.1/0.05	Austria	14 LP
	10	Belgium	Aye les March
	10	Bulgaria	Varna
	10	Spain	Barcelona (EAJ15)
	0.05	Switzerland	Obdach
	20	USSR	Leningrad-Vyborg 3
		Yugoslavia	?
	1	Libya	El Beida
1133	0.02	Iceland	Altafjördur
	15	Spain	Avila (ECS3)
	5		Sevilla (ECS8)
	5		Jaén (ECS9)
	5		Ciudad Real (ECS13)
	3		Monforte de Lemos (ECS17)
	2		Léon (EFE5) (V)
	5		Cacéres (EFE6)
	1		Castellon (EFE19)
	5		Oviedo (EFE22)
	5		Vigo (EFE31)
	5		Tarragona (EFE33)
	5		Pamplona (EFE57)
	2		Cádiz (EFJ5)
	2		Murcia (EFJ19)
	2		Almeria (EFJ25)
	2		Albacete (EFJ23)
	2		Ponferrada (EFJ29)
	2		Bilbao (EFJ43)
	5		Zaragoza (EFJ46)
	2		Calahorra (EFJ50)
	2		Burgos (EFJ52)
	5		Málaga (EFJ56)
	135	Yugoslavia	Zagreb I
	50		Split I
	20		Rijeka
	2		Dubrovnik/Osijek/Zadar
	0.5	Kenya	Nakuru
	100	Kuwait	Kuwait-Maqwah
1142	0.05	Austria	13 LP
	10	Germany W	Stuttgart-Hirschlanden (AFN)
	5		Bremerhaven (AFN)
	1		Ulm (AFN)
	0.25	Germany W	5 LP (AFN)
	20	Greece	Athens (GAF)
	0.05	Switzerland	St. Gallen
	50	USSR	Riga 2
	40	Algeria	Constantine
	5	UAR Egypt	Sohag
	2	Zambia	Livingstone (G)
1151	0.1	Austria	Judenbürg
	100	Great Britain	Stagshaw (R4)
	2		Scarborough (R4)
	0.1		Whitehaven (R4)
	50	Rumania	Cluj
	1	Morocco	Marrakech B
1155	50	UAR Egypt	Cairo-Bani Suwayf (Holy Koran Station)
1160	30	Bulgaria	Kardzali/Kolarovgrad
	150	France	Strasbourg
	1	Angola	Nova Lisboa (CR6RD)
	1	Mozambique	Lourenço Marques C
	10	Iran	Abadan (n.f.-1139)
1165	2	Turkey	Kars
1169	300	Germany E	Leipzig (RMR)
	10	Germany W	Heilbronn (SDR)
	4		Ulm-Jungingen (SDR)
	10	Portugal	Porto (CSB30)
	150	USSR	Kiev
	20	Yugoslavia	Koper
	0.05		Denji-Miholjac
	1	Afars & Issas	Djibouti (ORTF)
	1	Angola	Malanje (CR6RE)
	1	Burundi	Bujumbura
	1	Israel	Jerusalem
1178	10	Greece	Salonika (GAF)
1178	20	Spain	Barcelona-Montjuich (RNE)
	100	Sweden	Hörby
	1/0.05	Yugoslavia	Vukovar/Koprivnica
	2	S. Africa	Port Elizabeth (C)
	10	UAR Egypt	Aswan/Qina
	2	Turkey	Van
1186	0.06	Greece	Megara (private st)
1187	135	Hungary	Szolnok
	25		Szombathely
	5	Spain	Cuenca (RNE)
	5		Sevilla (RNE)
	1	Malagasy	Tananarive 3
	1	Morocco	Casablanca B
1192	2	Turkey	Gaziantep (V)
1195		Saudi Arabia	Dhahran (Aramco R)
1196	300	Germany	Munich-Ismaning (VOA relay)
	1	Portugal	Portalegre
	0.66	Lesotho	Maseru
	20	Morocco	Agadir C
	10	UAR Egypt	Alexandria
1200		Greece	Agrinión (private st)
	0.5	Cyprus	Lefke Sancak (R. Bayrak)
	0.05	Turkey	Izmir (Techn. T. School)
1205	100	France	Bordeaux
	60	Poland	Krakow/Rzeszow
	2	Yugoslavia	Subotica
	1	Gabon	Oyem
	10	Sierra Leone	Freetown
	20	Israel	Akko
1214	500	Albania	Tirana
	60	Great Britain	Washford
	50		London/Moorside Edge
	40		Westerglen
	30		Droitwich
	20		Burghead
	10		Lisnagarvey
	2/0.15		7 LP
	1	Malta	Bugibba
	200	USSR	Tallinn-Tartu 2
	0.05	Yugoslavia	Bjelovar/Gazma
	1	Angola	Luso (CR6RV)
	5	Libya	Benghazi
1220		Albania	Kukes
1223	30	Bulgaria	Stara Zagora
	0.05	Holland	Bloemendaal
	5	Italy	Rimini/Messina 2
	50	Spain	Madrid-Majadahonda 3/ (RNE)
	100	Sweden	Falun
	5	Mozambique	Lourenço Marques
	5/10		Nampula
1232	100	Czechoslovakia	Kosice
	30		Bratislava
	3		Hradec/Orava
	1	Angola	Luanda
	1	Gabon	Pt. Gentil
	50	Morocco	Tangier
1236	0.06	Greece	Sparta (private st)
1241	25	Finland	Vaasa
	20	France	Brest/Lille/Lyon/ Marseille/Nancy/Nice Rennes
	50	USSR	Kiev
	0.05	Yugoslavia	Radlje
	1	Rhodesia	Umtali
	0.25	S. Africa	Kimberley (A)
1250	10	Holland	Lopik 3
	135	Hungary	Balatonszabadi
	25		Nyíregyháza
	10	Ireland	Cork/Dublin
	1	Portugal	Chaves
	2	Spain	La Linea (EFJ55)
		USSR	Moscow 2
	0.1	Gabon	Franceville
	1.25	Tanzania	Mwanza
	1	Iran	Bandar Abass
1251	0.1	Tchad	Fort Lamy
1255	1	Rhodesia	Salisbury (C)
1259	150	Greece	Rhodes (VOA relay)
	100	Poland	Wroclaw
	50		Zielona Gora
	3.5	Spain	Valencia (EAJ3)
	2		Valladolid (EAJ47)
1260	0.02	Yugoslavia	Elemir
1268	600	Germany W	Neumünster (DLF)
	2	Spain	Madrid EAK1)
	2		Palma de Mallorca (EAK18)
	2		El Ferrol (EAK43)

kHz	kW	Country	Station/Location
1268	5		Astorga (EAK48)
	100	Yugoslavia	Novi Sad
	10	Canary Isl.	Las Palmas (EAK92)
	100	Kenya	Nairobi-Ngong
	4	Mali	Mopti
	2	South Africa	Pretoria (C)
1272	0.4	Albania	Gjirokaster
1275	1	Malagasy	Tananarive
1277	100	France	Strasbourg 2
	1	Greece	Florina (NBI)
	20	USSR	Moscow 3
	0.05	Yugoslavia	Vrbovec/Zdala
	1	Malawi	Bangula
	10	UAR Egypt	Aswan
1280	100	Afghanistan	Kabul-Pul i Charki
1286	100	Czechoslovakia	Prague-Melnik
	3.5		Rimavska Sobota
	2.5	Portugal	Lisbon (CSB3)
	1	Cameroon	Yaoundé
	0.5	Kenya	Nyeri
	5	Sénégal	Kaolack (R. Sénégal 5)
	7.5	Israel	Tel Aviv (IAF)
1295	150	Great Britain	Crowborough (BBC Eur. Sce.)
	2		Foxdale, Isle of Man
	150	USSR	Baku
	6	Yugoslavia	Vranje
	1	Angola	Serpa Pinto
	1	Morocco	Rabat C
	10	Mozambique	Beira (R. Pax)
1300	0.5	Cyprus	Cambulat (R. Bayrak)
1302	2	Turkey	Antalya (TRT)
1303	0.2	Albania	Korça
1304	1	Germany W	Heidelberg (AFN)
	0.25		5 LP
	160	Poland	Szczecin
	60		Gdansk
	0.1	Yugoslavia	Vrbas
	20	Algeria	Constantine/Oran
	0.5	Kenya	Nakuru
	1	Israel	Haifa (IAF)
1313	0.1	Austria	15 LP pgm 2
	100	Norway	Stavanger
	0.3		Trondheim (TUT)
	2	Rumania	Constanta/Craiova
	10	Spain	Zaragoza (RNE)
	100	USSR	Simferopol
	0.1/0.05	Yugoslavia	5 LP
	1	Angola	Sá da Bandeira (CR6RA)
	1	Gabon	Libréville
	2	S. Africa	Port Elizabeth (E)
	10	Syria	Aleppo-Saraqib
1320	1	Nigeria	Enugu
1321	0.2	Albania	Shkodra
1322	150	Germany E	Leipzig-Wiederau(RMR)
	0.5	Portugal	Santarém (CSB32)
	100	USSR	Kharkov
	0.05	Yugoslavia	Bac
	1	Morocco	Safi
	0.25	Mozambique	Nampula
1323		Greece	Kozani
1325	100	Iran	Teheran
1331	150	Italy	Rome 1
	50		Genoa 1
	25		Bari/Pescara 1
	12/1		4 stn
	1	Portugal	Elvas
	0.05	Yugoslavia	Brcko
	20	USSR	Tallinn/Parnu
	1	Angola	Moçamedes (CR6RM)
	1	Madeira	Funchal
	1	Seychelles	Victoria
1335		Greece	Kavalla (GAF) (V)
1337		Iraq	Baghdad
1340	100	Great Britain	Lisnagarvey (R)
	0.25		Londonderry (R4)
	80	Hungary	Budapest-Lakihegy 3
		USSR	?
	2	Rhodesia	Bulawayo (Af)
	1	Upper Volta	Ouagadougou
1343	0.25	Morocco	B. Mellal
1345	200	Kuwait	Kuwait-Al Jiwan
1349	20	France	Bordeaux/Grenoble
			Limoges/Toulouse
	10		Nantes
	20	USSR	Riga-Madona
			Tbilisi
			Kuybychev
	1	Angola	Cabinda (CR6RW)
	1	Cameroon	Garoua
	1	Mauritania	Nouakchott
1358		Albania	Tirana
	250	Germany E	Berlin-Köpenick (BW)
	20	Germany W	Bremen (RB-HW)
	1	Portugal	Viseu
		USSR	Moscow 2
	0.05	Yugoslavia	Pitomaca
	0.25/10	Mozambique	Lourenço Marques B
	10	Nigeria	Ibadan
	0.5	Israel	Eilat
1363	0.05	Yugoslavia	2 LP
1367	25	Italy	Venice 3
	12.5		Naples 3
	10		Genoa/Milan 3
	5/0.1		10 stns
	60	Poland	Bialystok/Lodz/Lublin
	10	Portugal	Porto-Monte de Virgem
	0.5	Switzerland	Savièse
		USSR	Moscow 2
	10/100	Angola	Luanda (CR6RA)
	1	Rhodesia	Que Que (E)
	5	Israel	Beersheba (IAF)
1376	150/250	France	Lille
			Pau (IcB)
		USSR	Vinnitsa
	1	Nigeria	Kano
1385	50	Greece	Athens
	25	Spain	Madrid (ECS11)
	2		Gerona (ECS14)
	2		Orense (ECS18)
	2		La Coruña (EFJ11) (V)
	2		Palma (EFJ45)
		USSR	Kaliningrad
	50		Kaunas (RMR)
	1	Angola	Silva Porto (CR6RO)
	2	Canary Isl.	S. Cruz de la Palma (ECS16)
1390	100	Iran	Ahwaz
	1	Israel	Jerusalem
1394	500	Albania	Shkodra
	25	Austria	Graz 2
	0.2/0.05		13 LP
	1	Azores	Angra do Heroismo (CSB80)
	1	Germany W	Augsburg (AFN)
	0.5/0.25		4 LP
	2	Spain	Zaragoza (EAK6)
	2		Badajoz (EAK21)
	2		Zamora (EAK26)
	2		Alicante (EAK31)
	2		Vigo (EAK33)
	2		San Sebastian (EAK44)
	2		Albacete (EAK46)
	2		Santander (EAK68)
	2		Almeria (EAK69)
	0.25	Sweden	Gothenburg/Stockholm 3
	0.15		17 LP
		USSR	Tbilisi
	0.05	Yugoslavia	Hlebine
	10	Libya	Tobruk
	4	Malagasy	Tananarive
	1	Togo	Lomé
1397	0.25	Nigeria	11 LP
1398	2	Spain	Cordoba (EAK20)
1400	0.05	Iceland	Höfn (AFRTS)
	0.25	Burundi	Bujumbura (9UZ23)
	0.5	Cyprus	Doganin Sesi (R. Bayrak)
1403	20	France	Brest/Clermont Ferrand/ Pau/Rouen
	10		Montpellier
	4		Bastia
	5	Greece	Komotini
	20	USSR	Tartu
	1	Yugoslavia	Loznica (V 1412)
	1	Angola	Lobito (CR6RS)
	60	Guinea	Conakry
1410		Rhodesia	— (E) (u.c.)
	750	Sult. of Oman	Masirah Isl. (BBC Relay)
1412	1/0.4	Finland	Helsinki/Turku 3
		France	Calvi
	3	Germany W	Bad Mergentheim 1 (SDR)
	0.02	Iceland	4 LP
	100	Portugal	Sao Gabriel
	2	Spain	Santiago de Compostela (EAJ4)
	2		Pamplona (EAJ6)
	2		Castellón (EAJ14)
	2		Granada (EAJ16)
	2		Murcia (EAJ17)
	2		Tarrasa (EAJ25)
	2		Burgos (EAJ27)

kHz	kW	Country	Station/Location
1412	5		Bilbao (EAJ28)
	2		Onteniente (EAJ30)
	2		Gijón (EAJ34)
	2		Algeciras (EAJ55)
	2		Segovia (EAJ64)
	2		Ciudad Real (EAJ65)
	100	Yugoslavia	Pristina
	20		Gospic/Maribor
	2		Osijek/Split
	1	Canary Isl.	S. Cruz de Tenerife (EAJ43)
1416	1	Nigeria	Kaduna
1421	1	Finland	Tampere
	400	Germany W	Heusweiler
		USSR	Riga
	0.03	Yugoslavia	Novigrad Podr.
	40	Algeria	Algiers 3
	0.25	Mozambique	Porto Amelia
	0.05	Tunisia	Tunis
	50	Cyprus	Zyyi (BBC Relay)
1430	70	Denmark	Skive 2
	10		Copenhagen-Herstedvester 2
	250	Germany E	Dresden (RBI)
	1	Italy	Pesaro + 2 LP
	1	Malta	Benghisa (BFBS)
	6	Rumania	Oradea
	2	Spain	Valencia (EAK5)
	2		Barcelona (EAK7)
	2		Valladolid (EAK9)
	2		Málaga (EAK11)
	2		Huelva (EAK14)
	2		Lérida (EAK15)
	2		Puertollano (EAK23)
	2		Leon (EAK25)
	2		Lorca (EAK29)
	2		Jaén (EAK40)
	2		Reus (EAK53)
	2		Caceres (EAK57)
	2		Lugo (EAK58)
	2		Figueras (EAK82)
	0.4		Ciudadela (EAK67)
	50	USSR	Uzhgorod
	0.05	Yugoslavia	Gradacac
	5	Mozambique	Beira (EAC)
1439	1200/600	Luxembourg	Marnach
		USSR	Syktyvkar
	1	Libya	Tobruk (BFBS)
	2	S. Africa	Pretoria (E)
1445	60	Mali	Bamako
1448	50	Italy	Squinzano 2
	25		Turin 2
	12.5		Palermo 2
	9/0.1		33 stns
	1	Portugal	Coimbra
	2/0.15	Sweden	12 stns (pgm 1)
	0.1	Yugoslavia	Srbrobran
		Congo D.R.	Kinshasa
1450	1	Iran	Gorgan
1454		Libya	Benghazi
1456	0.3	Mozambique	Lourenço Marques
1457	0.2	Austria	Spittal-Drau + 5 stns
	20	Great Britain	Clevedon (R4)
	10		Bartley (R4)
	2/1		4 stns (R4)
	20	Rumania	Craiova
	2	Zambia	Kabwe (G)
1458	0.75	Iran	Teheran (Iranian Air Force)
1460	0.08	Portugal	Caramulo (R. Polo Norte)
1464	0.05	Yugoslavia	Prilep
1466	400	Monaco	Monte Carlo-Fontbonne
	1/0.25	Norway	6 stns
	20	USSR	Simferopol
	0.05	Yugoslavia	2 LP
1475	150	Austria	Vienna-Bisamberg 2
	0.05		4 LP
	2	Spain	Reus (EAJ11)
	2		Palma de Mallorca (EAJ13)
	2		Logroño (EAJ18)
	2		Oviedo (EAJ19)
	2		Sabadell (EAJ20)
	2		Gandia (EAJ23)
	2		Córdoba (EAJ24)
	2		Santander (EAJ32)
	2		Pontevedra (EAJ40)
	2		Elche (EAJ53)
	2		Cádiz (EAJ59)
	2		Almeria (EAJ60)
1475	2		Zamora (EAJ72)
	4	Congo Rep.	Brazzaville
	1	Dahomey	Cotonou
	0.25	Ethiopia	Asmara-Kagnew Stn (AFRTS)
1478	0.4	Greece	Pyrgos (PBS) (V)
	2	Turkey	Trabzon (TRT)
1480	0.25	Trucial Amirates	Sharjah (Forces R. Stn)
1484	0.2	Austria	St. Pölten
	5	Belgium	Liège
	2		Ostende-Breedene
	2	Bulgaria	Sofia-Pleven
	5	Czechoslovakia	Brno-Jihlava + 2 stns
	2	Denmark	Copenhagen + 2 stns
	1	Finland	Pietarsaari/Pori
	1	France	Dijon + 4 stns
	1	Gibraltar	Wellington Front
	5	Germany W	Berlin (SFB2)
	0.2		4 LP (SDR1)
	2	Great Britain	Barrow/Cromer/ Ramsgate (R4)
	2		Edinburgh/Glasgow (R2) Dundee/Redmoss (R2)
	2		Bournemouth (R1)
	1	Greece	Volos (NBI)
	0.25	Iceland	Keflavik (AFRTS)
	0.02		2 LP
	2	Italy	Bolzano + 12 stns 2
	1	Norway	Karasjok
	0.25		4 LP
	8	Poland	Lodz
	2/1		6 stns
	2	Rumania	Baia Mare + 4 stns
	2	Spain	Valladolid (EFE1)
	2		Linares (EAJ37)
		USSR	Riga 3
	5	Yugoslavia	Belgrade
	2/0.02		40 LP
	1	Angola	Novo Redondo (CR6RP)
	0.2	Ascension Isl.	Georgetown (BBC Relay)
	10	Libya	Derna/Misurata (LBS)
	1		Tobruk (BFBS)
	1	Madeira	Funchal (CSB90)
	0.35	Morocco	Kenitra (AFRTS)
	0.25		Casablanca C
	1	Senegal	St. Louis
	0.5	Cyprus	Limassol-Polemidhia (CBC)
1486	0.02	Yugoslavia	Vojka
1489	0.02	Iceland	Hellissandur
1490	0.2	Yugoslavia	Vrbovsko
1493	0.05	Austria	Kitzbühel + 3 stns
	10	France	Ajaccio
	4		Bayonne
	1		7 LP
	5	Greece	Rhodes (NBI)
	50	USSR	Leningrad
			Kaliningrad
	7	Yugoslavia	Zagreb 2 + 6 stns
	4	Ivory Coast	Abidjan 2
1495	0.02	Portugal	Guarda (CSB21)
	0.02	Yugoslavia	Kavadarci
1500	0.25	Azores	Lajes, Terceira (AFRTS)
	0.2	Yugoslavia	Kumanovo
1502	0.8	Germany W	Münster (WDR1)
	0.25		Garmisch + 4 stns
	500	Poland	Warsaw-Mokotow
	2	Spain	Sevilla (EAK2)
	2		Burgos (EAK3)
	2		Pamplona (EAK4)
	2		Murcia (EAK12) (V)
	2		Bilbao (EAK13)
	2		Salamanca (EAK19)
	2		Ciudad Real (EAK22)
	2		Ibiza (EAK24)
	2		Granada (EAK39)
	2		Guadalajara (EAK52)
	2		Orense (EAK59)
	2		Castellon (EAK78)
	2		Aviles (EAK91)
		Yugoslavia	Belgrade
	1	Angola	Benguela (CR6RF)
	4	Malagasy	Tananarive
	1	Senegal	Tambacounda
	7.5	Cyprus	Nicosia-Haraklis (BFBS)
1510	0.02	Iceland	2 LP
1511	20	Belgium	Brussels-Veltem 3
	250	Germany E	Berlin-Köpenick (RBI)
	5	Greece	Chania (NBI)

kHz	kW	Country	Station/Location
1511	0.2		Patras (NBI)
		USSR	Tallinn
	0.05	Yugoslavia	2 LP
	1	St. Helena	Jamestown
1515	1	Iran	Sanandaj
1520	100	Czechoslovakia	Praha-Zbraslav
	30		Ceske Budejovice/ Karlovy/Ostrava
	3		Liberac
	2	Spain	Alicante (EAJ31)
	2		Gerona (EAJ38)
	5		Badalona (EAJ39)
	2		Lérida (EAJ42)
	2		Albacete (EAJ44)
	2		Valladolid (EAJ47)
	2		Vigo (EAJ48)
	2		Alcira (EAJ54)
	2		Jerez (EAJ58)
	2		Jaén (EAJ61)
	2		Lugo (EAJ68)
	0.05	Yugoslavia	2 LP
	1	Congo Rep.	Pointe Noire
	1	Morocco	Melilla (Sp Enclave) (EAJ21)
	2	Zambia	Livingstone (H)
1524		USSR	Moscow
1525	0.1	Niger	Tera
1529	0.075	Sweden	Porjus 1
	250	Vatican	Vatican City (HV100)
	1	Angola	Sá da Bandeira
	0.3	Madeira	Funchal (CSB91)
1538	700	Germany W	Mainflingen (DLF)
		USSR	?
	0.02	Yugoslavia	Bosanska Krupa
	4	Afars & Issas	Djibouti
	1	Chad	Fort Lamy
	0.1	Dahomey	Parakou
	10	Senegal	Dakar 1
1546	0.05	Austria	Abtenau 2 + 4 stns
	5	Germany E	Seelow
	1	Great Britain	8 stns (R3)
	0.25		3 stns (R3)
	10	Malta	Delimara Point (BBC Relay)
	50	USSR	Vinnitsa
1550	1	Yugoslavia	Bitola
1552	0.05	Yugoslavia	Stip
1554	250	France	Nice 2
		USSR	Vilnius
	1	Gabon	Libreville
1562	0.05	Austria	3 LP pgm 1
	1.25	Greece	Amalias (NBI)
	10	Int. Waters	R. Veronica
	1	Portugal	Covilha
	2/0.06	Sweden	14 LP pgm 1
	160	Switzerland	Beromünster
	0.5		Basel
		USSR	Leningrad 3
	0.05	Yugoslavia	Brezice
1565	0.05	Yugoslavia	Kisac
1570	1	Azores	Santa Maria (CSB81)
	20	Germany E	Bernburg-Halle (RDDR)
	5	Germany W	Kiel/Osnabrück
	0.25	Greece	Iraklion (AFRTS)
	5	Spain	Alicante (EFE8)
	2		Vitoria (EFE10)
	5		Valencia (EFE17)
	2		Santander (EFE25)
	5		Cordoba (EFE58) (V)
	2		Tortosa (ECS6)
	2		Tárrega (ECS7)
	2		Socuellamos (ECS10) (V)
	5		Marbella (ECS15)
	2		Soria (EFJ2)
	2		Albacete (EFJ23)
	2		Béjar (EFJ38)
	10	USSR	Leningrad
	4	Algeria	Laghouat
	1	Central African Republic	Bangui
	2	Zambia	Kabwe (H)
	0.05	Turkey	Diyarbakir (AFRTS)
1578	50	Italy	Genua + 19 stns
	10	Norway	Fredrikstad
	1.3		Nordkapp
	10	Portugal	Porto (CSB5)
	0.1	Dahomey	Cotonou
	5	Ivory Coast	Baouke
1586	800	Germany W	Langenberg (WDR)
		USSR	Tartu
	0.25	Angola	Luanda
	1	Upper Volta	Bobo Dioulasso
1594	0.05	Austria	3 LP
	2	Belgium	Kortrijk
	2	Czechoslovakia	Tatry + 1 stn
	2	Denmark	Esbjerg
	1	France	Nimes + 3 stns
	1/0.2	Great Britain	Foxdale, Isle of Man
	0.25		Bournemouth/Dundee (R3)
	2.5	Holland	Hengelo/Hoogezand/ Hulsberg
	15	Hungary	Miskolc/Magyarovar
	2/0.1	Italy	Bolzano + 8 stns pgm 3
	2	Poland	Opole + 2 stns
	10	Portugal	Lisbon (CSB4)
	0.2	Sweden	7 LP pgm 3
	2/0.05	Yugoslavia	10 LP
	0.6	Algeria	Bougie
	1	Angola	Nova Lisboa
	0.01	Libya	Tripoli (AFRTS)
	1	Morocco	Marrakech
		Saudi Arabia	Jidda
	0.05	Turkey	Karamursel (AFRTS)
	0.03		Trabzon (AFRTS)
1595	0.1	Niger	9 LP
1600	1	Ascension Isl.	Georgetown (AFRTS)
1602	370	Germany W	Munich (BR)
		Int. Waters	R. Nordsee International

ASIA & PACIFIC

Abbreviations: Ass=Associated; Bc=Broadcasting, Broadcasters; Bolin=Bolinao; Co=Company; Corp=Corporation; Def=Defense; Elec=Electronics; Metr=Metropolitan; Mind=Mindanao; N=North, Northern; Nat=National; Net=Network; nf=nominal frequency; P=Programme; Reg=Regional; rf=reported frequency; Sce=Service; St=Station; Sy=System; (v)=varying frequency.

kHz	kW	Call	Country	Station/Location
155	10		USSR	Petropavlovsk, Kazakhstan
	50			Blagoveshchensk, Amur Obl
164	50	RV11	USSR	Tashkent, Uzbekistan
170	15		USSR	Kara Bogaz Gol, Turkmenia
173	20	RV52	USSR	Chita, Chitin Oblast
812	50		USSR	Barnaul, Altay Kray
	50	RV90		Alma Atá, Kazakhstan
	30			Petropavlovsk, Kamchatka Obl
191	30	RV22	USSR	Birobidzhan, Jew. Aut. Obl
200	100		USSR	Ulan Ude, Buryat-Mongolia
	100	RV13		Irkutsk, Irkutsk Oblast
	75			Ashkhabad, Turkmenia
209	60		Mongolia	Ulan Bator
	50	RV122	USSR	Blagoveshchensk, Amur Obl
218			China (PR)	Shenyang, Liaoning
	50	RV128	USSR	Krasnoyarsk, Krasn Kray
227	150		Mongolia	Ulan Bator
	50		USSR	Tselinograd, Kazakhstan
236	30		USSR	Magadan, Magadan Oblast
	50			Bulun, Yakut ASSR
	50			Tobolsk, Tyumen Oblast
245	100		USSR	Vladivostok, Prim. Kray
	100			Nikolaevsk-na-Amure, Khabarovsk Kray
254	50	RV47	USSR	Dushanbé, Tadzhikistan

kHz	kW	Call	Country	Station/Location
254	50			Chimkent, Kazakhstan
	50			Ulagan, Altay Kray
263	50	RV62	USSR	Yakutsk, Yakut ASSR
				Chita, Chitin Oblast
272			China (PR)	Harbin, Heilungk (v)
	150	RV76	USSR	Novosibirsk, Nov. Oblast
	50			Chardzhou,Turkmenia
281	10	RV63	USSR	Ulan Ude, Buryat-Mongolia
	50			Krasnogorsk, Kharov Kray
	50			Ussuriysk (Vladivostok), Primorskiy Kray
310	50		USSR	Barnaul, Altay Kray
331		RV81	USSR	Nukus, Kara-Kalpak ASSR
333	2		USSR	Turtkul,Kara-Kalpak ASSR
335	150	RV69	USSR	Khabarovsk, Khab. Kray
340			USSR	Dudinka, Krasnoyar Kray
	2			Igarka, Krasnoyar Kray
350	20		USSR	Dushanbé, Tadzhikistan
		RV51		Nalchik, Kabardin ASSR
360	100		USSR	Yuzhno Sakhalinsk
367	40	RV5	USSR	Sverdlovsk, Sverdl. Oblast
375	10	RV19	USSR	Ashkhabad, Turkmenia
380		RV32	USSR	Vladivostok, Prim. Kray
390	1		USSR	Gorno Altaysk, Altay Kray
395	50	RV49	USSR	Omsk, Omsk Oblast
400	50		USSR	Tashkent, Uzbekistan
529	400		USSR	Urghench, Kara-Kalpak ASSR
530	2	2KM	Australia	Kempsey, NSW (R. Kempsey)
	2	3UL		Warragul, Vic (Ass. Bc. Sce's)
	2	4KZ		Innisfail, Qld (Coastal Bc)
	10	6DL		Dalwallinu, WA (ABC)
	10	JO8AD	Japan	Moiroka (NHK1, exp)
	5	DZXR	Philippines	Manila (Mabuhay Bc. Sy)
540	2	7SD	Australia	Scottsdale, Tasm (N.E. Tasmanian R. Bc)
	10	4QL		Longreach, Qld (ABC 3rd)
			China (PR)	Peking
	5	JOJG	Japan	Yamagata (NHK1)
	1	JOJU		Nano (NHK1)
	1	JOMG		Miyazaki (NHK1)
	1	JOSG		Matsumoto (NHK1)
	1	JOSK		Kitakyushu (NHK1)
	1	HLCZ	Korea, So.	Hongsung (KBS)
	1	HLCV		Yongwoll (KBS)
	1	HLSC		Jumchon (KBS)
	1/0.5	DZYZ	Philippines	Olongapo (Nation Bc. Corp)
	10	DZWT		Beckel-Trinidad, Mt. Province (Mt. Prov. Bc. St)
	1			Cebu, Cebu (Mareco Inc.)
	50		Vietnam, So.	Cat-Lo (Saigon) (AFVN/AFRTS)
545	20	ZBV	Hong Kong	H.K. (Engl. Sce)
548	150	RV445	USSR	Vladivostok, Prim. Kray
550	50	2CR	Australia	Orange, NSW (ABC 3rd, Reg)
	5	KMVI	Hawaii	Wailuku, Maui
	100		India	Bombay B
	10		Malaysia	Ipoh (Malay Sce)
	0.2	ZK2ZN	Niue Island	Alofi
	1	DZCA	Philippines	Manila, Luneta (Nat. Civ. Def. Adm)
	1	DYCI		Iloilo, Panay (Nat. Civ. Def)
	1	DYCH		Maasin, Leyte (Nat. Civ. Def)
550	2.5			Ozamiz (Cath. Welfare Org)
555	10		Thailand	Bangkok (Armour School R. Bc. St, "Chor Sor 1")
560	0.4	2ML	Australia	Murwillumbah, NSW (ABC 3rd)
	2	4AM		Jungaburra (Atherton), Qld
	50	6WA		Wagin, WA (ABC 3rd, Reg)
	2/1	7BU		Burnie, Tasm (Burnie Bc. Sce)
	135		China (PR)	Peking
				Urumchi, Sinkiang
	5	VRH	Fiji	Suva (English Sce)
	5		India	Ranchi
	0.5			Junagarh/Ludhiana
	10	JOCR	Japan	Kobe (R. Kansai Co)
	1	HLCJ	Korea, So.	Chinju (KBS)
	5			Seoul (AFKN "Vagabond")
	1	DZCI	Philippines	Cabanatuan, Luzon (Nation Bc. Corp)
	1	DZAA		Legaspi, Luzon (Pacific Bc. System)
	5/1			Tagum, Mind. (Cath. Welf. Org)
	1	DXBR		Basilan, Bas. (Cath. Welf. Org)
	1			Bacoon, Caute (T. Romasanta BC)
	10		Vietnam, So.	Pleiku (AFVN, AFRTS)
565	10		Malaysia	Tenom, Sabah
570	1		Ceylon	Unknown (Nat Sce; Sinhala)
			China (PR)	Peking
	0.5		India	Jubbulpore
	100	JOIK	Japan	Sapporo (NHK1)
	10	HLKF	Korea, So.	Chonju (Jonju) (KBS)
	10		Malaysia	Johore Bahru (Malay Sce)
	100	2YA	New Zealand	Wellington
	10	DYCB	Philippines	Pardo, Cebu (Bolin. Elec)
	2.5	DZAG		Agoo, La Union (R. Phil. Net)
575	10	HLKR	Korea, So.	Kangneung (KBS)
	1	HLKD		Masan (KBS)
	50		USSR	Sredne Kolymsk, Yakut ASSR
580	50	3WV	Australia	Horsham, Vic (ABC 3rd, Reg)
			China (PR)	Fuchou (Foochow), Fukien
	20		India	Trichur
	10	JOHG	Japan	Kagoshima (NHK1)
	0.1			3 st's (NHK1)
	5		Korea, So.	Taegu (AFKN "Kilroy")
	1			Munsan-Ni (AFKN "Tomah")
	10		Pakistan	Peshawar
	10	DZBB	Philippines	Malabon (Rizal), Luzon (Republic Bc. System)
584	50		USSR	Svobodnyi, Amur Obl
585			China (PR)	Changchun, Kirin
			Korea, No.	Unknown (P2)
590	50	4QR	Australia	Brisbane, Qld (ABC 1st Net)
			China (PR)	Peking
				Amoy-Fuchou area, Fukien
				Lhasa, Tibet
		BEH4 BEH42	Taiwan	Taipei (Fu Hsing St) Kaohsiung (Fu Hsing St)
	5	KGMB	Hawaii	Piihonua, Hilo
	10		India	Nagpur A
	100	JOAK	Japan	Tokyo (NHK1)
	20		Malaysia	Kuala Lumpur (Malay Sce)
	5	DXDC	Philippines	Davao, Mind (R. Mind. Net)
	1	DZHB		Baguio, Luzon (R. Mind. Net)
	1			Iriga, Luzon (Jorge O. Bc)

kHz	kW	Call	Country	Station/Location
590	10		Thailand	Chumpon (Wor Por Thor 15)
	10			Khon Kaen (Wor Por Thor 12)
592			USSR	Novosibirsk, Nov. Oblast
593	10		USSR	Krasnoyarsk, Krasn. Kray
600	4/2	4AT	Australia	Atherton, Qld (ABC 3rd, Reg)
	2	6PH		Port Hedland, WA (3rd, Reg)
	0.2	6NM		Northam, WA (ABC 3rd, Reg)
	10	7ZL		Hobart, Tasm (ABC 2nd, Net)
	135		China (PR)	Peking (v)
	10	ZK1ZC	Cook Islands	Rarotonga
	50		India	Ajmer
	5	JOKK	Japan	Okayama (NHK1)
	1	JOCY		Nayoro (NKK1)
	10	HLCA	Korea, So.	Seoul (KBS)
	1	HLSM		Jangheung (KBS)
	10		Malaysia	Tuaran, Sabah
	5	DZAX	Philippines	Bulacan, Luzon (R Phil. Net)
	10	DYRC		Cebu, Cebu (Cebu Bc. Co)
	1	DZVV		Vigan, Luzon (Northern Bc. Net)
	10	HSAAA	Thailand	Bangkok (AAA Div/ R Bc. St, Thai Army)
	10			Bangsue (Antiaircr. Artill)
605			Korea, No.	Unknown
610	0.75	WASA	Antarctica	McMurdo Sound
	50	2FC	Australia	Sydney, NSW (ABC 2nd, Net)
			China (PR)	Peking
	7.5	BEC61	China, Taiwan	Taipei (Military Bc. St)
	10		Hong Kong	H.K. (Comm Cantonese P2)
	50		India	Bangalore A
	100	JOLK	Japan	Fukuoka (NHK1)
	10	KUAM	Guam	Agana
	1	DXMB	Philippines	Malaybalay, Mindanao (Visayan Bc. System)
	20		Vietnam So.	Saigon (Prgr. B)
611	25	RV9	USSR	Frunze, Kirghizia
617	2.5		USSR	Abakan, Krasnoy. Kray
620	50	3AR	Australia	Melbourne, Vic (ABC 2nd Net)
			China (PR)	Harbin (Haerhpin), Heilungk.
	5	BEC78	Taiwan	Shihlin (Voice of Righteousness)
	20		India	Patna A
	3	JOCG	Japan	Asahikawa (NHK1)
	1	JOMT		Nobeoka (NHK1)
	1	JOSQ		Iida (NHK1)
	0.65			Iwami (NHK1)
	50	DZXL	Philippines	Meycauayan (Manila), Luzon (Chronicle. Bc. Net)
	150		USSR	Kemerovo, Kemerovo Obl
625			Korea, No.	Haeju (P2)
	20		New Caledonia	Noumea
629	100		USSR	Vladivostok, Prim. Kray (Far East Sce)
630	50	4QN	Australia	Townsville, Qld (ABC 3rd Reg)
			China (PR)	Peking
				Urumchi, Sinkiang
	1		India	Alleppey
	5	JOIG	Japan	Toyama (NHK1)
	20	2YZ	New Zealand	Napier
	100	APL1	Pakistan	Lahore I
	1	DZRL	Philippines	Laoag, Luzon (R. Phil. Net)
	5	DYAG		Cadiz, Negros (Liberty Bc. Net)
	5/1	DXBC		Butuan, Mind. (R. Mind. Net)
	1			Zamboanga, Mindanao (Visayan Bc. Sy)
	10		Singapore	Singapore (Engl. Sce)
635			China (PR)	Nanning, Kuanghai (v)

kHz	kW	Call	Country	Station/Location
635			Korea, No.	Chongjin (Foreign Sce)
	1		Thailand	Haad (Pub. Rel. Dept)
	1			Songkhla (Pub. Rel. Dept)
640	10	5CK	Australia	Port Pirie, SA (ABC 3rd, Reg)
	20		Ceylon	Colombo (Comm. Sce, English + Sinhala)
	20	ZEK	Hong Kong	H.K. (Chinese Sce)
	10	JOPG	Japan	Kushiro (NHK1)
	50	HLKC	Korea, So.	Seoul (Tong-Yang Bc. Co)
	10		Laos	Vientiane (Rdiff. Nat. Lao)
	0.05		Lord Howe Isl.	Lord Howe Island
	2	4YW	New Zealand	Dunedin (Alexandra)
	10	DXAW	Philippines	Davao, Mind. (Bolin. Elec)
	1	DZWO		Legaspi, Luzon (Cath. Welf. Org)
645	270		China (PR)	Peking (v)
647	50	RV185	USSR	Iman, Primorskiy Kray
	50			Khantymansiysk, Tyumen Obl
650	10	2NU	Australia	Tamworth, NSW (ABC 3rd, Reg)
	0.4	6AL		Albany, WA (ABC 3rd, Reg)
	2	8DR		Darwin, North. Terr. (ABC 3rd, Reg)
	10	KORL	Hawaii	Honolulu
	20		India	Indore A
	1	HLSL	Korea, So.	Bosung (KBS)
	20		Malaysia	Kuching, Sarawak
	10	DZRH	Philippines	Navotas (Manila), (Manila Bc. Co)
	1	DXOR		Cagayan de Oro, Luzon (Pedro Roa Bc)
	10	AXLH	Ryukyu Isl.	Naha, Okinawa (U.S. Air Force, AFRTS)
	10	HSJS1	Thailand	Bangkok (Army Signal Corps, "Chor Sor 1")
655			Korea, No.	Pyongyang (P2)
656	50		USSR	Verkhoyansk, Yakut ASSR
660	20		Afghanistan	Kabul
	0.2	2BH	Australia	Broken Hill, NSW
	2	6GF		Kalgoorlie, WA (ABC 3rd Reg)
			China (PR)	Harbin (Haerhpin), Heilungk
	20	BED34	Taiwan	Taipei (BCC)
	5		India	Trivandrum A
	1			Nagpur B
	5	JOAG	Japan	Nagasaki (NHK1)
	5	JOOG		Obihiro (NHK1)
	10	HLKM	Korea, So.	Chunchon (KBS)
	5			Pusan (VUNC)
	10		Malaysia	Penang (Malay Sce)
	60	2YC	New Zealand	Wellington
	1	DXLC	Philippines	Cotabato (Mind. Bolin, Elec)
	1	DZXI		Laoag, Luzon (Monserrat Bc. System)
	1	DYBC		Cebu, Cebu (Visayan Bc. Sy)
	55	HSKK	Thailand	Khon Kaen (R. Thailand)
662	10		Thailand	Bangkhen (Kasetsart University, "Mor Kor 1")
665	10		Malaysia	Lahad Dayu, Sabah
	100		USSR	Komsomolsk-Amur (Khab. Kray)
670	10	2CO	Australia	Albury, NSW (ABC 3rd, Reg)
	0.05	6BE		Broome, WA (ABC 3rd, Reg)
	0.05	8KN		Katherine, North. Terr. (ABC 3rd, Reg)
			China (PR)	Paotou, Inner Mongolia
				Chiamussu (Kiamusze) Heilungkiang
	10		India	Calcutta A
	100	JOBK	Japan	Osaka (NHK1)
	0.5			Miki (NHK1)
	2.5	DXRD	Philippines	Davao, Mind. (Nation Bc. Corp)
	1	DYPL		Iloilo, Panay (Chronicle Bc. Net)

kHz	kW	Call	Country	Station/Location
670	1		Thailand	Sakon Nakhon (Pub. Rel. Dept)
	0.5		Vietnam, So.	Long An (Provincial St)
674	50		USSR	Yeniseisk, Krasn. Kray
	10	HSQK	Thailand	Bangkok (Thai TV Co, P2) (nf 1146 kHz)
675			China (PR)	Huhehot, Inner Mongolia
680	10	2KP	Australia	Kempsey, NSW (ABC 3rd, Reg)
	2	6BS		Brusselton, WA (ABC 3rd, Reg)
	0.05	8TC		Tennant Creek, North Terr. (ABC 3rd, Reg.)
			China (PR)	Urumchi, Sinkiang + 2 st's
	10	BEP24	Taiwan	Changhua (Police Bc. St)
	10		India	Calicut A
	5	JOUG	Japan	Yamaguchi (NHK1)
	5	JOVK		Hakodate (NHK1)
	40	DZAS	Philippines	Valenzuela (FEBC)
	10		Singapore	Singapore(Chinese Sce)
683			China (PR)	Amoy-Fuchou Area, Fukien (T)
685			India	Unknown
690	2	4KQ	Australia	Brisbane, Qld (Labor Bc. St)
			China (PR)	Peking + 2 st's
	1.5	BEC32	Taiwan	Kaohsiung (Milit. Bc. St)
	10	KKUA	Hawaii	Honolulu
	300	JOAB	Japan	Tokyo (NHK2)
	20	3YA	New Zealand	Christchurch
	100	APD2	Pakistan	Dacca II
	1	DZBL	Philippines	Legaspi, Luzon (Bol. El)
	1	DXDX		Cotabato, Mindanao (R. Philipp. Net)
	1	DZTG		Tuguegarao, Luzon (R. Philipp. Net)
	0.5	DXLM		Marawi, Mindanao (Philipp. Bc. Sce)
	5			Bacolod, Negros (Metr. Bc. Co)
	50		Vietnam, So.	Banmethuot (Reg. St)
692	50	RW184	USSR	Anadyr, Magadan Oblast
697			Korea, No.	Chongjin (P2)
700	50	2NR	Australia	Grafton, NSW (ABC 3rd, Reg)
	50		Ceylon	Colombo (Nat. Sce., Sinhala + Educ. Sce)
			China (PR)	Urumchi, Sink. + 2 st's
	3	BEC25	Taiwan	Taoyuan (Taipei) (Mil. Bc. St)
	10	JOFB	Japan	Hiroshima (NHK2)
	10	JOKD		Kitami (NHK2)
	10		Malaysia	Kota Bahru (Malay Sce)
	1	DXCL	Philippines	Cagayan de Oro, Luzon (Chronicle Bc. Net)
	1	DZLU		San Fernando, Luzon (Northern Bc. Net)
705	2		Laos	Luang-Prabang Prov
	20		Thailand	Bangkok (Defense Energy Dept)
710	10	4QW	Australia	St. George, Qld (ABC 3rd, Reg)
	10	7NT		Launceston, Tasm (ABC 3rd, Reg)
	1.5		Taiwan	Tainan (Air Force Bc. St)
	3	VRH2	Fiji	Naulu Rewa (Suva) (Vernaculars Sce)
	50		India	Jullundur B
	500	HLKA	Korea, South	Namyang (Seoul) (KBS)
	10	DZFM	Philippines	Bulacan, Luzon (Phil. Bc. Sce)
	10/5	DXRA		Davao, Mindanao (North. Bc. Net)
	150	RV77	USSR	Vladivostok, Prim. Kray (Foreign Sce)
	0.05		Vietnam, So.	Kien Hoa (Provincial St)
713			China (PR)	Fuchou, Fukien
715	10		Thailand	Lop Buri (Thai Army)
719	100		USSR	Tujnsakhalinsk (Sakh. Obl)
720	0.2	2TR	Australia	Taree, NSW (ABC 3rd, Reg)
	2	4QA		Mackay, Qld (ABC 3rd, Reg)
	50	6WF		Perth, WA (ABC 1st, Metr)
	0.5	7QT		Queenstown, Tasm (West Coast Bc)
			China (PR)	Peking
				Nanching, Kiangsu
	10	BED58	Taiwan	Taichung (Peitun) (BCC)
	5	KUAI	Hawaii	Kauai
	10		India	Madras A
	1	JODF	Japan	Morioka (Iwate Bc. Co)
	1	JOIL		Kokura (Kyushu Asahi Bc. Co)
	0.1	JOZL		Takayama (R. Gifu)
	20		Malaysia	Kuala Lumpur (Chinese/Indian Sce)
	20	4YZ	New Zealand	Invercargill
	1	DXIC	Philippines	Iligan, Mind (R Mind Net)
	1	DZGB		Legaspi, Luzon (Legaspi Bc. Sy)
	1	DZYI		Ilagan, Isabela (Nation Bc. Corp)
	1	DYHB		Bacolod, Negros (R Mind. Net)
	10		Thailand	Hat Yai ("Wor Por Thor 5")
	10		Vietnam, So.	Hué (Regional St)
725			Korea, No.	Kim-chaek (P1)
	55	HSWK	Thailand	Nakhon Ratchasima (Khorat) (R. Thailand, "Por Chor Sor")
730	50	5CL	Australia	Adelaide, SA (ABC 2nd, Net)
			China (PR)	Peking
			Taiwan	Mushah ("World News")
	10		India	Gauhati A
	10	JOCK	Japan	Nagoya (NHK1)
	10		Malaysia	Kuching, Sarawak
	1	DYBR	Philippines	Tacloban, Leyte (East Visayan Bc. Net)
	1	DXND		Cotabato, Mind (Notre Dame Bc. Corp)
	2.5	DZQR		Lipa, Luzon (Freedom Bc. Net)
	1			Baguio, Luzon (ABS-CBN Bc. Corp)
	50		Tahiti	Papeete
735			Korea, No.	Pyongyang (P2)
	10		Macau	Macau (Emiss. Vila Verde) (v)
737	50	RV72	USSR	Chelyabinsk
	50			Khanty Mantziysk, Tyumen Oblast
	50			Ussuriysk, Prim. Oblast
740	50	2BL	Australia	Sydney, NSW (ABC 1 st Net)
	20	XUD2	Cambodia	Phnom Penh
			China (PR)	Urumchi, Sinkiang + 1 st
	20		India	Hyderabad A
	5	JOJF	Japan	Kofu (Yamanashi Bc. Sy)
	5	JOLR		Toyama (Kita Nihon Bc. Co)
	100	HLKG	Korea, So.	Taegu (KBS)
	10		Laos	Pakse, Sedone Prov.
	10		Malaysia	Ipoh (Engl. Sce)
	5	DXMC	Philippines	Davao, Mind. (Mind. Bc. Sy)
	1	DZCV		Tuguegarao, Luzon (Filipinas Bc. Net)
	5/1	DYWC		Malusay, Negros Oriental (Franciscan Bc. Corp)
	5	KSAR	Ryukyu Isl.	Naha, Okinawa (Ryuk. Bc. Corp)
746			USSR	Alma-Atá, Kazakhstan
		RV46		Karagandá, Kazakhstan

kHz	kW	Call	Country	Station/Location
746	20			Tselinograd, Kazakhstan
	200			Semipalatinsk, Kazakhstan
750	10	4QS	Australia	Toowoomba, Qld (ABC 3rd, Reg)
			China (PR)	Amoy-Fuchou Area (+ 1 st)
	125	BED2	Taiwan	Minhsiung (Chiai) (BCC)
	1		India	Pondicherry
	0.5			Ernakulam
	100	JOIB	Japan	Sapporo (NHK2)
	10	HLKH	Korea, So.	Kwangju (KBS)
	5		Malaysia	Tawau, Sabah
	2	3ZA	New Zealand	Greymouth (Comm. adv)
	10		Pakistan	Quetta
	5	DZRB	Philippines	Baras, Canaman, Luzon (Bolin. Elec)
	1	DXGS		General Santos (Rajah Buayan City) (Filip. Bc. Net)
	1			Cebu, Cebu (Nation Bc. Corp)
	1			Bauang, Leyte (R. Henry Canoy)
755			USSR	Dushanbé, Tadzhikistan
760	1	2NB	Australia	Broken Hill, NSW (ABC 3rd, Reg)
	0.05	2AN		Armidale, NSW (ABC 3rd, Reg)
			China (PR)	Peking
	10	KGU	Hawaii	Honolulu
	50		India	Lucknow A
	10	JOPB	Japan	Shizuoka (NHK2)
	10	JOUK		Akita (NHK1)
	20	1YA	New Zealand	Auckland
	1	DZMB	Philippines	Navotas (Manila), Luzon (Manila Bc. Co)
	1	DXRI		Iligan, Mind. (Nation Bc. Corp)
	1			Bacolod, Negros (L.N. Agustin Farms)
	50		Vietnam, So.	Hué (Voice of America)
765			Korea, No.	Unknown location
	10		Malaysia	Kuala Trengganu (Malay See)
770	50	3LO	Australia	Melbourne (ABC 1st Net)
			China (PR)	Wuhan, Hupeh
	0.5	BEC35	Taiwan	Tsoying (Mil. Bc. St)
	5	BEV88		Taoyuan (Hsien Sheng St)
	10	JOUB	Japan	Akita (NHK2)
		HLAJ	Korea, So.	Cheju (Namyang Bc. Sy)
	1	DZJC	Philippines	Laoag, Luzon (Cosm. Bc. Co)
	1	DXMZ		Cotabato, Mind (Mind. Bc. Sy)
	1	DYPR		Puerto Princesa, Palawan (Allied Bc. Center)
	1	DYRR		Ormoc, Leyte (R. Henry Canoy)
	1			Quezon, Luzon (R. Henry Canoy)
	0.1		Thailand	Mukadahan (AFTN, Air Force)
	0.1			Nakhon (AFTN, Air Force)
	0.1			Phanom (AFTN, Air Force)
	10		Vietnam, So.	Qui-Nhon (AFVN, AFRTS)
780	2	2KA	Australia	Katoomba, NSW (TBC)
	2	4TO		Townsville, Qld (AW)
	2	6VA		Albany, WA (Albany Bc)
			China (PR)	3 st's
		BED 92	Taiwan	Unknown (BCC)
	5	JOXK	Japan	Tokushima (NHK1)
	3	JOIU		Muroran (NHK1)
	1	JOBS		Hikone (NHK1)
	5		Korea, So.	Pusan (AFKN "Homesteader")
	10		Malaysia	Sandakan, Sabah
780	20	4YA	New Zealand	Dunedin
	10	DXCC	Philippines	Cagayan de Oro, Mind (R. Mind. Net)
	2.5	DXDO		Mati, Mind (Freedom Bc. Net)
	1	DZRJ		Novaliches, Luzon (Rajah Bc. Net)
	1	DZZR		Legaspi, Luzon (Freedom Bc. Net)
	5/1			Baguio, Luzon (Nation Bc. Corp)
	1			Tuguegarao, Luzon (Nation Bc. Corp)
	5	KSDT	Ryukyu Isl.	Naha, Okinawa (R. Okin. Co)
	10		Vietnam, So.	Quinhon (AFVN/ AFRTS)
782			USSR	Alma Atá, Kazakhstan
	20			Karagandá, Kazakhstan
785			China (PR)	Swatow
	20		India	Poona A
			Korea, No.	Pyongyang (P1) (v)
	10		Thailand	Bangkrabue (Armed Car School, "Yan Kro")
790	10	4QG	Australia	Brisbane, Qld (ABC 2nd Net)
		BEH4	Taiwan	Taipei (Fu Hsing Bc. St)
	1	BEV79		Keelung (Cheng Hua Bc. St)
	0.5		India	Nanded
	1	JOCQ	Japan	Takayama (NHK1)
	1	JOQX		Takada (NHK1)
	1	JOHI		Naze (NHK1)
	1			Enbetsu (NHK1)
	0.1			3 stations (NHK1)
	50	HLKJ	Korea, So.	Seoul (Dong-A Bc. Sy)
	10		Nepal	Kathmandu
	1	DZAB	Philippines	Angeles, Pampanga, Luzon (Delta Bc. Sy)
	1	DYVL		Palo, Leyte (Manila Bc. Co)
	1	DZXE		Vigan, Luzon (Pac. Bc. Sy)
	1			Naga, Luzon (Ass. Bc. Corp)
	1			Isabela, Basilan (Far East Business Enterprises)
	100		Singapore	Singapore (Multilingual)
795			China (PR)	Shanghai (v)
798			China (PR)	Canton (Kuangchou), Kuangtung
800	2		Australia	Innisfail-Tully, Qld (Comm)
	2	5RM		Murray Valley (Berri) SA (River Murray Bc)
			China (PR)	Hsining, Tsinghai (Chinghai)
	1	BEC47	Taiwan	Kinmen Isl. (Kuang Hua Net)
	20		India	Bhadrawathi
	0.1		Japan	9 st's (private)
	0.02-0.05			3 st's (private)
			Korea, No.	Kim-chaek (P1) (v)
	5		Malaysia	Kudat, Sabah
	20	2YB	New Zealand	Wellington
	5	DZPI	Philippines	Navotas (Manila), Luzon (Phil. Bc. Corp)
	5	DYFM		Iloilo, Panay (N. Bc. Net)
	2		Thailand	Nakhon Ratchasima (Thai Air Force)
	1			Khok Krathiam (Thai Air Force)
	1			Prachuap Khiri Khan (Thai Air Force)
	200		USSR	Dushanbé, Tadzhikistan
	10		Vietnam, So.	Quang Ngai (Reg. St)
803			China (PR)	Peking
810	10	2BA	Australia	Bega, NSW (ABC 3rd, Reg)
	10	6WN		Perth, WA (ABC 2nd Net)

kHz	kW	Call	Country	Station/Location
810			China (PR)	Urumchi, Sink. + 2 st's
	1.5	BEV54	Taiwan	Changhua (Kuo Sheng Bc. St)
	100		India	Delhi A
	10		Japan	Tokyo (FEN)
	20	HLCT	Korea, So.	Taegu (Hankuk Munhwa Bc. Co)
	10		Malaysia	Kuantan (Malay Sce)
	2	9RB	Papua and New Guinea	Kurakakaul, Rabaul
	1	DZSP	Philippines	San Pablo, Luzon (Nation Bc. Corp)
	1	DXMI		Iligan, Mind (Mind. Bc. Sy)
	1	DXMM		Davao, Mind (Mind. Bc. Sy)
	1	DZYN		Laoag, Luzon (Manila Times Publishing Co)
	10		Thailand	Khon Kaen (Pub. Rel. Dept.)
815			Korea, No.	Chaeryong
820	10	2GL	Australia	Glen Innes, NSW (ABC 3rd)
			China (PR)	Fukien Area (Peoples Liberation Army + 2 st's
	1	BED28	Taiwan	Taitung (BCC)
	1	BEV34		Taipei (Cheng Sheng Bc. Corp)
	1		India	Bangalore B
	1			Jodhpur
	0.5			Bhagalpur
	1	JOCP	Japan	Koriyama (NHK1)
	1	JONK		Nagano (NHK1)
	1	JOIP		Oita (NHK1)
	1	JOGQ		Hitoyashi (NHK1)
	0.5-0.1			3 st's (NHK1)
			Korea, No.	Najin (P2) (v)
	20	HLCN	Korea, So.	Kwangju (Hankuk Munhwa Bc)
	10	4ZA	New Zealand	Invercargill (Comm.)
	1	DYBU	Philippines	Cebu, Cebu (Phil. Bc. Corp)
	1	DZYB		Baguio, Luzon (Mabuhay Bc System)
	10		Vietnam, So.	Saigon (AFVN AFRTS)
825			China (PR)	Peking
827			China (PR)	Fuchou, Fukien
	50		USSR	Dudinka, Krasnoyar Kray
	50			Kyzyl, Tuvin ASSR
830	10	3GI	Australia	Sale, Vic (ABC 3rd, Reg)
	2	6GN		Geraldton, WA (ABC 3rd Reg)
	0.4	7QN		Queenstown, Tasm. (ABC 3rd, Reg)
			China (PR)	Luta (Dairen), Liaoning
	2.4	BEV56	Taiwan	Tainan (Voice of Victory)
	10	KIKI	Hawaii	Honolulu
	0.5		India	Varanasi
	300	JOBB	Japan	Osaka (NHK2)
	0.05			Miki (NHK2)
	2	1YX	New Zealand	Whangarei
	10	APK1	Pakistan	Karachi
	5	DZQL	Philippines	Meycauayan (Manila), Luzon (Monserrat Bc. Sy)
	1	DXRB		Butuan, Mind. (Nation Bc. Corp)
	100	HSK2	Thailand	Nakhon Pathom (Bangkok) (R. Thailand)
	100			Salaya (pub. Rel. Dept.)
835			China (PR)	Nanchang, Kiangsi
836	50		USSR	Tura, Krasnoyar Kray
840	10	4RK	Australia	Rockhampton, Qld (ABC 3rd, Reg)
	1	6ED		Esperance, WA (ABC 3rd, Reg)
			China (PR)	Harbin (Haerhpin), Heil.
	0.3	BEC38	China, Taiwan	Penghu Isl. (Milit. Bc. St)
	1		Fiji	Suva (Alternate Prg's)
	20		India	Vijayawada A

kHz	kW	Call	Country	Station/Location
840	10	JOQK	Japan	Niigata (NHK1)
	50	HLKY	Korea, So.	Seoul (Christ. Bc. Sy)
	10		Malaysia	Kota Bahru (Engl. Sce)
	2	2ZD	New Zealand	Masterton, (Comm.)
	10	DYSR	Philippines	Dumaguete, Negros (Nat Council of Churches Bc. Net)
	1			Cauayan (Isabela) (N. Bc. Net)
843	50	HSK909	Thailand	Sakon Nakhon (Pub. Rel. Dept.)
844	10	VSZ1	Gilbert and Ellice Isl.	Bairiki Island
845			China (PR)	Peking
	50		USSR	Akmolinsk, Kazakhstan
850	10	2CY	Australia	Canberra, Capital Terr. (ABC 3rd Net)
	0.2	6CA		Carnarvon, WA (ABC 3rd, Reg)
			China (PR)	Urumchi, Sinkiang (Minority Prgrs.) + 6 st's
	1	BEC49	Taiwan	Matsu Isl. (Kuang Hua Net)
	1	BEV59		Taichung (Farmers' Bc. St)
	1	KIMO	Hawaii	Hilo
	2		Hong Kong	H.K. (Comm. Cantonese Sce)
	50		India	Ahmedabad A
	10	JOQG	Japan	Morioka (NHK1)
			Korea, No.	Pyongyang (P2) (v)
	20		Malaysia	Kuching, Sarawak
	5	DZGE	Philippines	Baras, Canaman, Luzon (Filipinas Bc. Net)
	1	DXMY		Tagum, Mind. (Mind. Bc. Sy)
	50		Vietnam, So.	Da Nang (AFVN AFRTS)
854	50		USSR	Amga, Yakut ASSR
	50			Chelyabinsk (Sverdl. Obl)
855			China (PR)	Fukien Area (Peoples Liberation Army)
856	10	HSK28	Thailand	Bangkok (Pub. Rel. Dept.)
860	2	4GR	Australia	Toowomba, Qld (Bc. St. 4GR)
	2	6AM		Northam, WA (Whitford Bc. Net)
	2	7HO		Hobart, Tasm. (Comm. Bc)
			China (PR)	Lanchou, Kansu
	1	BED25	Taiwan	Kaohsiung (BCC)
	1	BED27		Hualien (BCC)
	1	BEV24		Taipei (Min Pen St, P2)
	20		India	Sambalpur
	5	JOPR	Japan	Fukui (Fukui Bc. Co)
	3	JOHE		Asahigawa (Hokkaido Bc. Co)
	3	JOQF		Muroran (Hokkaido Bc. Co)
	1	JOSO		Matsumoto (Shinetsu Bc. Co)
	0.1	JOSN		Toyohashi (RTC)
			Korea, No.	Unknown (P1) (v)
	10	HLKN	Korea, So.	Mokpo (KBS)
	10		Malaysia	Penang (Engl. Sce)
	10	1YZ	New Zealand	Rotorua
	50	DZRV	Philippines	Bulacan (R Veritas)
	1	DYOG		Calbayog, Samar (Visayan Bc. Sy)
863	50		USSR	Karagandá, Kazakhstan
870	5	2GB	Australia	Sydney, NSW (Bc. St 2GB)
	2	6DB		Derby, WA (ABC 3rd, Reg)
	20		Ceylon	Colombo (Nat Sce, Tamil)
			China (PR)	Urumchi, Sinkiiang + + 2 stations
	1.5	BEV52	Taiwan	Taichung (Chung Sheng Bc. St)
	5	KAIM	Hawaii	Honolulu
	0.5		India	Ujjain
	100	JOLB	Japan	Fukuoka (NHK2)

kHz	kW	Call	Country	Station/Location
870	20/10		Malaysia	Kuching, Sarawak
	10		Pakistan	Chittagong
	0.025			Peshawar (U.S. Air Force Base AFRTS)
	1	DYXL	Philippines	Bacolod (Chronicle Bc. Net)
	1	DXVM		Cagayan de Oro (R. Mind Net)
	1	DYQL		Bacolod (Bolin. Elec.)
	1	DZBT		Batangas (Assoc. Bc. Corp)
	50		Vietnam, So.	Saigon (Prgr A)
877.5			Korea, No.	Wonsan
880	2/1	4WK	Australia	Warwick, Qld (Warwick Bc. Co)
	2	6PR		Perth, WA (Nicholson's Bc. Sce)
			China (PR)	Urumchi, Sinkiang (Minority Prgr) + 1 st.
	5		India	Panaji (Goa)
	5			Sikkim
	10	HLKI	Korea, So.	Taejon (KBS)
	10	1YC	New Zealand	Auckland
	10	DXMS	Philippines	Cotabato, Mindanao (Notre Dame Bc. Corp)
	1	DZTC		Tarlac, Luzon (Nation Bc. Corp)
	3	KSBK	Ryukyu Isl.	Naha, Okinawa (Ryukyus Bc. Corp)
	10		Thailand	Ban Tak (R. Thailand)
885	20		Malaysia	Kuala Lumpur (Engl. Sce)
890	50	5AN	Australia	Adelaide, SA (ABC 1st Net)
			China (PR)	Urumchi, Sinkiang (Minority Prgr) + 3 st's
	10	BED24	Taiwan	Tainan (BCC)
	1	BED85		Taipei (BCC)
	2.5	VRH3	Fiji	Lautoka (Vernac. Sce)
	50		India	Jullundur A
	10	JOHK	Japan	Sendai (NHK1)
	50	HLKB	Korea, So.	Pusan (KBS)
	5/1	DZRC	Philippines	Legaspi, Luzon (Filip. Bc. Net)
	1	DZXX		Malabon (Rizal), Luzon (Republic Bc. System)
	1			Bangued, Luzon (Cath. Welf Org.)
	1		Thailand	Bangkrabue (Armed Car School)
895	10		Brunei	Berakas
900	2	2LM	Australia	Lismore, NSW (RRB)
	2	6BY		Bridgetown, WA (WAB)
	0.5	7AD		Devonport (No. Tasm. Bc.)
	100	BED96	Taiwan	Tamsui (Taipei) (BCC)
	20		India	Cuddapah
	5	JOHF	Japan	Yonago (San In Bc. Sy)
	5	JOZR		Kochi (R. Kochi Bc. Co)
	5	JOHO		Hakodate (Hokk. Bc. Co)
	0.05			Masuda (San In Bc. Sy)
	50	HLKV	Korea, So.	Seoul (Hankuk Munhwa Bc. Co)
	10		Macau	Macau (Em. de Rdif de M.)
	10	4YC	New Zealand	Dunedin
	5	DYHP	Philippines	Cebu, Cebu (R Mind. Net)
	1	DXUM		Davao, Mind. (Mind. Bc. Sy)
	1	DZAD		Dagupan, Luzon (Pacific Bc. System)
	10		Vietnam, So.	Cam Ranh Bay (AFVN/AFRTS)
910	10	4QB	Australia	Maryborough, Qld (ABC 3rd, Reg)
	10	4QO		Eidsvold, Qld (ABC 3rd, Reg)
			China (PR)	Amoy-Fuchou Area, Fukien Urumchi, Sinkiang + 2 st's
910		BEH10	Taiwan	Taipei (Fu Hsing Bc. St)
		BEH32		Taichung (Fu Hsing Bc. St.)
		BEH43		Kaohsiung (Fu Hsing Bc. St)
		BEH62		Hsinchu (Fu Hsing Bc. St)
	0.5	BEV78		Keelung (Cath. Church)
	1		India	Lucknow C
	10	JOCB	Japan	Nagoya (NHK2)
	0.25	HLSE	Korea, So.	Inje (KBS)
	1	DXLI	Philippines	Iligan, Mindanao (Chronicle Bc. Net)
	1	DYHF		Binalbagan, Negros (Visayan Bc. System)
	1	DXMX		Zamboanga, Mindanao (Mind. Bc. System)
	1		Thailand	Bangkok (Pub. Rel. Dept.)
920	2	2XL	Australia	Cooma, NSW (Cooma Bc.)
	2/1	4VL		Charleville, Qld (Ch. Bc. Co)
	2	6NA		Narrogin, WA (Suntimes Bc.)
	25		Ceylon	Colombo (Nat Sce + Comm. Sce, English)
			China (PR)	3 st's
	1		India	Amritsar
	0.15			Aijal/Cheran/Teju/ Tuensang
	5	JOEF	Japan	Yamagata (Yam. Bc. Co)
	1	JOHF		Miyazaki (Miyaz. Bc. Co)
	0.05			3 st's (private)
	1	HLCO	Korea, So.	Chulwon (KBS)
	0.25	KMTH	Midway Isl.	Midway Isl. (U.S. Navy Base AFRTS)
	10	3YZ	New Zealand	Greymouth
	50	DZRP	Philippines	Bulacan (Malolos), Luzon (Philipp. Bc. Sce)
	10		Vietnam, So.	Ba-Xuyên (Regional st)
923	10	HSKL	Thailand	Bangkok (R. Thailand)
926	50		USSR	Taichet (Tayshet), Irk. Obl.
930	5	3UZ	Australia	Melbourne, Vic. (Nilsens Bc. Sce)
	2	4GD		Gladstone, Qld (Gladstone District Bc.)
			China (PR)	3 st's
	2	BEV72	Taiwan	Chiayi (Cheng Sheng Bc. Corp)
		BEC42		Taipei (Army St)
	1	BEV78		Keelung (Yi Shih Bc. St, Catholic Church)
		BEH35		Ilan (Fu Hsing Bc. St)
	2		Fiji	Nadroga (Vernac + English)
	10		India	Vishakhapatnam
	1			Simla
	10	JOGK	Japan	Kumamoto (NHK1)
			Korea, No.	Unknown location
	0.25	HLSU	Korea, So.	Hadong (KBS)
	5		Malaysia	Kota Kinabalu, Sabah
	10	DXMT	Philippines	Davao, Mind. (Assoc. Bc. Corp)
	1			Tacloban, Leyte (N. Bc. Net)
931	1	HSHW	Thailand	Pattani, Malay Peninsula (Thai Army)
933			China (PR)	Fukien Area (People's Liberation Army)
940	2	4QY	Australia	Cairns, Qld (ABC 3rd, Reg)
	10	7ZR		Hobart, Tasm (ABC 1st Net)
			China (PR)	Hofei, Anhuei
	10	KAHU	Hawaii	Waipahu
	100		India	Tiruchi A
	5	JOPF	Japan	Tokuyama (Yamaguchi Bc. Co)
	5	JOTR		Akita (Akita Bc. System)

kHz	kW	Call	Country	Station/Location
940	1	HLCR	Korea, So.	Andong (KBS)
	10		Malaysia	Johore Bahru (Engl Sce)
	2	2ZA	New Zealand	Palmerston North (Comm.)
	5	DZTD	Philippines	Dagupan, Luzon (Manila Times Publishing Co)
	1	DYCR		Dumaguete, Negros (Nat Council of Churches Bc. Net)
	1	DXRO		Catabato, Mind. (Nation Bc. Corp)
	1	DZVS		Bulan, Luzon (Pan Or. Bc.)
	0.1		Thailand	Ubon (US Air Force AFTN)
950	5	2UE	Australia	Sydney, NSW (MBN)
			China (PR)	Fukien (People's Lib. Army)
				Urumchi, Sinkiang (Minority Prgr) + 2 st's
	2.4	BEV85	Taiwan	Hsinying (Tainan) (Chien Kuo Bc. St)
	50		India	Allahabad A
	50	JOKR	Japan	Tokyo (Tokyo Bc. Sy
	0.3		Laos	Vientiane (Local Sce)
	20		Malaysia	Limbang, Sarawak
	1	DXRZ	Philippines	Zamboanga, Mind. (Mind. Bc. System)
	1	DXMO		Cagayan de Oro, Mind. (Mind. Bc. System)
	1	HSQ	Thailand	Nakhon Ratchasima (Police st)
955	50	XZK	Burma	Rangoon (P1)
	1	XUD23	Cambodia	Bokor
	1	HLKS	Korea, So.	Cheju (KBS)
960	2	3BO	Australia	Bendigo, Vic. (AW)
	2	4AY		Ayr, Qld (Ayr Broadc'ers)
	2	6TZ		Bunbury, WA (Nicholson's Bc. Sce
	2	6CI		Coltie, WA (Bc. St 6CI)
			China (PR)	Hsian (Sian), Shensi
	20	BED55	Taiwan	Taipei (BCC)
	5	JOTG	Japan	Aomori (NHK1)
	5	JOZK		Matsuyama (NHK1)
	1	JOSP		Saga (NHK1)
	1	JOLQ		Yonago (NHK1)
	1	JOUQ		Hagi (NHK1)
	10		Malaysia	Kuala Trengganu (Engl Sce)
	10	3YC	New Zealand	Christchurch
	50	DZAQ	Philippines	Meycauayan (Bolin. Elec.)
	1		Thailand	Thon Buri (Pub. Rel. Dept.)
962	10		USSR	Kulyab, Tadzhikistan
965	20		India	Cuttack A
			Korea, No.	Unknown location
967			China (PR)	Harbin (Haerhpin), Heilungkiang (v)
970	2	5DN	Australia	Adelaide, SA (Hume Bc.)
	0.6		Brunei	Kuala Belait
			China (PR)	Peking (Korean Prg's)
				Urumchi, Sinkiang (Minority Prgr)
	1	BEV68	Taiwan	Kaohsiung (Feng Ming Bc. St, P2)
	5	KPAU	Hawaii	Hilo
	1		India	Poona B
	1			Mysore
	0.5			Amritsar
	100	HLSA	Korea, So.	Seoul (Suwon) (KBS)
	2	1ZN	New Zealand	Whangarei (Comm.)
	1	DYMB	Philippines	Cebu, Cebu (Metr. Bc. Co)
	1	DXMN		Cagayan de Oro, Mind. (Mind. Bc. System)
	1		Vietnam, So.	Nhatrang (Regional St)
973	20	RV136	USSR	Yuzhno-Sakhalinsk (Sakh. Obl.)
975			Korea, No.	Unknown location
	10		Thailand	Chiang Rai
	10			Nakhon Ratchasima
980	2	6KG	Australia	Kalgoorlie, WA (Whitford's Bc.

kHz	kW	Call	Country	Station/Location
980			China (PR)	Shangai
	3.5	BEC70	Taiwan	Taipei (Air Force Bc. St)
	100		India	Raipur
	5	JOFG	Japan	Fukui (NHK1)
	5	JOKG		Kofu (NHK1)
	1	JOIQ		Wakkanai (NHK1)
	20	2ZB	New Zealand	Wellington (Comm)
	1	DXYZ	Philippines	Zamboanga, Mindanao (Nation Bc. Corp)
	0.5	DZXM		Manila, Luzon (Mabuhay Bc. Sy)
	1	DXGE		Davao, Mind. (Liberty Bc. Net)
	1.5	DZGM		Legaspi, Luzon (L. Bc. Sy)
	1		Thailand	Bangkok (Pub. Rel. Dept)
	1	HSMK		Yala, Malay Peninsula (Pub. Rel. Dept)
	100		USSR	Krasnoyarsk Krasn. Kray)
	20			Garm, Tadzhikistan
				Alma Atá, Kazakhstan
985	10		Thailand	Chiang Mai ("Wor Por Thor 2")
990	2	2GZ	Australia	Orange, NSW (Country Bc. Sces)
			China (PR)	Urumchi, Sinkiang (Minority Prgr's) + 2 st's
	1.5	BEV84	Taiwan	Tsaotun (Chung Hsing Bc. St)
	5	KTRG	Hawaii	Honolulu
	1		India	Jammu, Kashmir
	10	JORK	Japan	Kochi (NHK1)
		HLAP	Korea, So.	Masan (Kyungnam Bc. Co)
	1	DYRP	Philippines	Iloilo, Panay (Allied Bc. Center)
	0.5	DXWB		Gingoog, Mindanao
	0.5	DZAH		Baguio, Luzon (R. Phil. Net)
	1			Vigan, Luzon (Cath. Welf. Org)
	20		Singapore	Singapore (Malay Sce)
	0.5	HS1PN	Thailand	Ploen Chit (Post & Telegr.)
998	10		West Irian	Sorong
1000	2	3HA	Australia	Hamilton, Vic. (Vic. Bc. Net)
	2	4RO		Rockhampton, Qld. (Rockhampton Bc. Co)
	2	6PM		Perth, WA (Whitford's Bc. Net)
	120	XUD24	Cambodia	Phnom Penh (nf 1410 kHz)
			China (PR)	Peking + 1 st.
	50	BED62	Taiwan	Taipei (BCC)
	10		India	Coimbatore
	20			Calcutta B
	1	JODG	Japan	Hamamatsu (NHK1)
	1	JORQ		Nakamura (NHK1)
	0.1			2 stations (NHK1)
	1	HLKT	Korea, So.	Taegu (Christ. Bc. Sy)
	1	HLCL		Kwangju (Chr. Bc. Sy)
	10	1ZD	New Zealand	Tauranga (Comm.)
	10	DZMM	Philippines	Meycauayan, Bulacan, Luzon (Bolinao Electronics)
	2	DXHP		Cagayan de Oro, Mind. (R. Mindanao Net)
1005			Korea, No.	Hamhung (P1) (v)
	0.25		Macau	Macau (Em. Vila Verde)
	10		Malaysia	Malacca (Malay Sce)
1007	1		Vietnam, So.	Hué (Regional St)
1010	2	4CA	Australia	Cairne, Qld (A. W.)
	2	4IP		Ipswich, Qld (S. Queensland Bc. Corp)
	2	6GE		Geraldton, WA (Whitfords Bc. Net)
	2	7EX		Launceston, Tasm
			China (PR)	Fukien (Peoples Lib. Army)
	1	BEV92	Taiwan	Taipei (Tien Nan Cc. St)
	10		India	Coimbatore
	1			Pondicherry

kHz	kW	Call	Country	Station/Location
1010	20	JONR	Japan	Osaka (Asahi Bc. Corp)
	10	APH1	Pakistan	Hyderabad
	5	DXJW	Philippines	Zamboanga, Mind. (Chronicle Bc. Net)
	5	DZRD		Dagupan (Nation Bc. Corp)
	1	DYRO		Roxas, Palawan (Allied Bc. Center)
	1	DZSJ		San José (R. Henry Canoy)
	1	DZFA		Sorsogon, Luzon (Bayanihan Bc. Center)
	1		Thailand	Laksi (Post & Telegraph)
			USSR	Unknown, Ea. Siberia (Mayak)
	100		Vietnam, No.	Hanoi
	10		Vietnam, So.	Saigon (Prgr. A)
1020	5	2KY	Australia	Sydney, NSW
			China (PR)	Fukien (Peopl. Lib. Army)
				Peking (For. Sce)
	3.5	BED53	Taiwan	Hsinchu (BCC)
	1	BEV60		Kaohsiung (Cheng Yen Bc. St)
	20		India	Delhi B
	0.5			Tanjore
	1	DZWX	Philippines	Baguio, Luzon (N. Bc. Net)
	1	DYSS		Cebu, Cebu (Rep. Bc. Sy)
	1	DZQM		Lucena, Luz. (Bolin. Elec)
	1			Davao, Mind. (Eagle Bc. Corp)
	1	KSAB	Ryukyu Isl.	Naha, Okinawa (FEBC)
	10	ZCO	Tonga	Nuku'alofa
1025	200		USSR	Tomsk (Tomsk Oblast)
1030	5	3DB	Australia	Melbourne, Vic (Herald Sun St)
	20		Ceylon	Diyagama (Nat. Sce, Sinhala + Comm. Sce, Tamil)
			China (PR)	2 st's
	1.5	BEV94	Taiwan	Taichung (Min. Tien. Bc. St)
	1	BEV51		Sanchungshih (Taipei)
	10		India	Gauhati B
	0.1		Japan	20 st's (NHK1)
	0.05			8 st's (NHK1)
	0.02			1 st (NHK1)
	1	HLCG	Korea, So.	Hwachon (KBS)
	1	DZFE	Philippines	Valenzuela (FEBC)
	1	DYXT		Tagbilaran, Bohol (Juanito Viado)
	1			Bacolod, Negros (Allied Bc. Center)
	5	VQO	Solomon Isl.	Honiara
1035			Korea, No.	Unknown location
1040	1	2UH	Australia	Muswellbrook, NSW (ABC 3rd, Reg)
	2	5PI		Crystal Brook, SA (Advertiser Bc. Net)
			China (PR)	Peking (Sce)
	1	BED26	Taiwan	Chiayi (BCC)
		BEV51		Taipei (Chung Hua Bc. St)
	5	KHVH	Hawaii	Honolulu
	50		India	Bombay A
	1		Korea, So.	Chunchon (AFKN)
	10		Malaysia	Penang (Chi./Ind. Sce)
	10	4ZB	New Zealand	Dunedin (Comm. adv.)
	5	DZDR	Philippines	Naga, Luzon (N. Bc. Net)
	5	DZRI		Dagupan, Luzon (Bolin. Elec.)
	0.5	DYMS		Palo, Leyte (Manila Bc. Co)
	1			Digos, Mindanao (Rural Electric Corp)
1043	20/10	HSVSSI	Thailand	Bangkok (Army Signal Dept.)
1045			Korea, No.	Haeju
1050	2	2CA	Australia	Canberra (Canberra Bc.)
			China (PR)	6 st's
		BEC50	Taiwan	Linkou (Kuang Hua Net)
1050		BEC51		Kwangyin (Kuang Hua Net)
	5	BEV74		Pingtung County (Min Lih Bc. St)
	10		Hong Kong	Comm Bc. Co (Cantonese, P1)
	1		India	Jaisalmer
	0.5			Vizianagram
	10	JOAR	Japan	Nagoya (Chubu-Nippon Bc. Co)
	10		Pakistan	Rangpur
	5/1	DZEC	Philippines	Rizal (Manila) (Eagle Bc. Corp)
	2.5	DXLL		Zamboanga, Mind. (Visayan Bc. System)
	1	DYSA		Iloilo, Panay (Univ. of San Augustin)
1052	50		USSR	Kurgan (Kurgan Oblast)
1053			China (PR)	Fuchou, Fukien
1060	2	4SB	Australia	Kingaroy, Qld (So. Burnett Bc. Co)
			China (PR)	Kuangchou (Canton)
	1	BED43	Taiwan	Taichung (Peitun) (BCC)
	1	BEV82		Ilan (Min Pen I. Bc. St)
	10		India	Rampur
	0.15			Pasighat/Along/ Deosri/Tezpur
	0.1		Japan	21 st's (private)
	0.04			2 st's (private)
	10	HLKQ	Korea, So.	Chongju (KBS)
	2	2ZG	New Zealand	Gisborne (Comm. adv.)
	5	DZVR	Philippines	Laoag, Luzon (N. Bc. Net)
	1	DXKI		Marbel, Cotabato (FEBC)
	1	DYMC		Masbate (Freedom Bc. Net)
	1	HS2LS	Thailand	Laksi (Pathum Thani) (Post & Telegraph)
1070	2	2RG	Australia	Griffith, NSW
	2	6WB		Katanning, WA (W. Austr. Bc.)
			China (PR)	Tienching (Tientsin), Hopeh
	10	BED57	Taiwan	Taipei (BCC)
	2.4	BEV96		Tainan (Tien Nan St)
	20		India	Rajkot A
	10	JOFK	Japan	Hiroshima (NHK1)
	10	1ZB	New Zealand	Auckland (Comm. adv.)
	10	DZWS	Philippines	Bulacan (Manila), Luzon (Manila Times Publ. Co)
	1	DYWX		Bacolod, Negros (Visayan Bc. System)
	1			Tagum, Mind. (Vis. Bc. Sy)
	20		Thailand	Nakhon Si Thammarat (Malay Peninsula) (5th Infantry Div.)
	100		USSR	Ust Kamenogorsk (Kazakhst)
1075			China (PR)	Chengchou, Honan
1079	50		USSR	Kyzyl (Tuvin Aut. Obl.)
1080	2	2MO	Australia	Gunnedah, NSW
	0.2	4MI		Mount Isa, Qld (ABC 3rd, Reg)
	2	6IX		Perth, WA (W. Austr. Bc.)
	2	7HT		Hobart, Tasm. (Metropolitan Bc.)
	1	JOLC	Japan	Tottori (NHK2)
	1	JOHD		Takamatsu (NHK2)
	1	JOIC		Toyama (NHK2)
	1	JOIT		Muroran (NHK2)
	1	JOOC		Obihiro (NHK2)
	0.1/ 0.05			4 st's (NHK2)
			Korea, No.	Kaesong (P2) (v)
	10		Pakistan	Rajshahi
	1	DXVA	Philippines	Butuan, Mind. (Liberty Bc. Net)
	1	DYMX		Cebu, Cebu
	1			Naga, Luzon (Eagle Bc. Corp)

kHz	kW	Call	Country	Station/Location
1080	1			Dagupan (Eagle Bc. Corp)
	1			Tuguegarao, Luzon (Eagle)
1090	2	3LK	Australia	Lubeck, Vic. (Herald Sun)
			China (PR)	Amoy-Fuchou Area, Fukien (Taiwan Sce)
				Peking + 1 st
		BEH6	Taiwan	Taipei (Fu Hsing Bc. St)
		BEH33		Taichung (Fu Hsing)
		BEH34		Sun-Moon-Lake (Fu Hsing)
		BEH44		Kaohsiung (Fu Hsing)
		BEH56		Hualien (Fu Hsing)
		BEH63		Hsinchu (Fu Hsing)
		BEC31		Yunlin County (Military Bc. St)
	10	KHAI	Hawaii	Honolulu
	1		India	Kozhikode
	1			Calicut B
	10	JOHB	Japan	Sendai (NHK2)
	1	HLCH	Korea, So	Chungju (KBS)
	10	APL1	Pakistan	Lahore II
	1	DXCM	Philippines	Cotabato, Mind. (Mind. Bc. System)
	1	DYVP		Masbate (N. Bc. Net)
	10	HSFL	Thailand	Nakhon Sawan (Thai Army)
	1		Vietnam, So	Da Nang (Regional St)
1095			China (PR)	Chungking, Szechuan
			Laos	Vientiane (Lao Armed Forces)
1100	2	4LG	Australia	Longreach, Qld. (Ce. Queensland Bc. Corp)
	2	6MD		Merredin, WA (W. Austr. Bc)
	2	7LA		Launceston, Tasm. (Findlay & Wills Bc)
	10		Brunei	Berakas
	1.5	BEC22	Taiwan	Taipei (Milit. Bc. St)
	100	BED97		Tamsui (BCC)
	0.5		India	Surat
	5	JOCF	Japan	Kagoshima (Mina-minihon Bc. Co)
	1	JOEL		Yamagata (Yam. Bc. Co)
	1	JOGF		Oita (Oita Bc. Sce)
	1	JOMF		Sasebo (Nagasaki Bc. Co)
	1	JONF		Miyazaki (Miyazaki Bc. Co)
	1	JOWO		Koriyama (R. Fukushima Bc. Co)
	0.02			2 st's (private)
	5		Korea, So.	Seoul (VUNC)
	10	3ZB	New Zealand	Christchurch (Comm)
	10	DZMT	Philippines	Bulacan (Manila), Luzon (Manila Times Publ. Co)
	1			Zamboanga, Mind. (Eagle Bc. Corp)
	1			Davao, Mindanao (Audrenax Inc)
	10	HSE1	Thailand	Bangkok (Territ. Defense)
1110	5	2UW	Australia	Sydney, NSW (Commonwealth Bc. Corp)
			China (PR)	6 stations
	1	BEC47	Taiwan	Kinmen Isl. (Kuang Hua Net)
	1	KIPA	Hawaii	Hilo
	20		India	Gulbarga
	5	JOMR	Japan	Kanazawa (Hokuriku Bc. Co)
	1	JOBW		Hikone (Kinki Bc. Sy. Co)
	1	JOSR		Nagona (Shinetsu Bc. Co)
	0.1	JOKL		Kanonji (RNC)
	10	HLCQ	Korea, So	Taejon (Hankuk Munhwa)
	1	DXRC	Philippines	Cagayan de Oro, Luzon (Metr. Bc. Co)
	1	DYHR		Calbayog, Samar (Vanguard R Net)
	3			Batac, Luzon (Phil. Wireless)
1115			China (PR)	Hsiamen (Amoy), Fukien
1115	0.25	HLSY	Korea, So	Yangku (KBS)
	50		USSR	Khanty Mansyisk (Tyumen Obl)
1120	2	4BC	Australia	Brisbane, Qld (Commonwealth Bc. Corp)
			China (PR)	Peking + 1 st
	0.5	BED72	Taiwan	Yuli (BCC)
	1.5	BEP26		Hsinchu (Police Bc. Net)
	2.5	BEP25		Kaohsiung (Police Bc. Net)
	1		India	Srinagar A, Kashmir
	5	JOAF	Japan	Matsuyama (Nankai Bc. Co)
	5	JODR		Niigata (Bc. Sy. of Niigata)
	0.1	JOHM		Hamada (BSS)
		HLAU	Korea, So	Ulsan (Yungnam Bc. Co)
	1	DYRM	Philippines	Dumaguete (Allied Bc. Center)
	1	DZXT		Tarlac, Luzon (Fil. Bc. Net)
	1			Tabaco, Albay (Freedom Bc. Net)
	10	WVUV	Samoa (Amer)	Pago Pago
1125			China (PR)	Taiyüan, Shansi
1130	2	2AD	Australia	Armidale (New England Bc)
	2	3CS		Colac, Vic (Colac Bc. Co)
	2	6CI		Collie, WA (MBN)
			China (PR)	3 stations
		BEC75	Taiwan	Taipei (Min. Fang Bc. St)
	2	BEV36		Yun Lin (Cheng Sheng)
	10	KLEI	Hawaii	Kailua
	1000		India	Calcutta (Gen. Sce)
	50	JOQR	Japan	Tokyo (Nippon Cult. Bc)
	2	2ZM	New Zealand	Wellington (Comm. adv.)
	10	DZHP	Philippines	Calocan, Luzon (R. Mind. Net)
	1	DYOR		Ormoc, Leyte (Vis. Bc. Sy)
	10		Thailand	Lampang (R. Thailand)
	1			Chiang Mai (Pub. Rel. Dept)
1140	2	2HD	Australia	Newcastle, NSW (Airsales Pty. Ltd)
			China (PR)	Peking
	1		India	Trivandrum B
	10	JOBR	Japan	Kyoto (Kinki Bc. Sy. Co)
	10	HLCX	Korea, So	Chonju (Hankuk Munhwa)
	10		Malaysia	Kuantan (Engl. Sce)
	2	1YW	New Zealand	Hamilton
	2		Pakistan	Sylhet
	1000		Philippines	La Union (Poro) (VOA)
	1		Thailand	Prachuap Khir Khan (Pub. Rel. Dept)
1146	10	HSQK	Thailand	Bangkok (Thai TV Co, P2) (rf 674 kHz)
1150	2	2WG	Australia	Wagga Wagga, NSW (Riverina Bc)
	5	XZK8	Burma	Rangoon (P2)
	3	BEG22	Taiwan	Taipei (China Youth Bc. St)
		BED68		Unknown locat. (BCC)
	1		India	Rajahmundri
	10	JOPC	Japan	Kushiro (NHK2)
	10	JORB		Koochi (NHK2)
	0.25		Korea, So.	Kwangju (AFKN)
	0.25			Cheju-do (AFKN)
	1	HLCW		Wonju (KBS)
	10	APRI	Pakistan	Rawalpindi
	1	DYRD	Philippines	Tagbilaran, Bohol
	1	DZEL		Lucena, (Eagle Bc. Corp)
	0.3		Samoa, W	Apia
	100		USSR	Khabarovsk, (Prim. Kray)
	30			Komsomolsk-Amur
1160	2	4MB	Australia	Maryborough (Maryborough Bc. Co

kHz	kW	Call	Country	Station/Location
1160	10	5PA		Penola, SA (ABC 3rd, Reg)
			China (PR)	Peking
	1	BED86	Taiwan	Ilan (BCC)
	1	BED39		Miaoli (BCC)
	1	BEV67		Kaohsiung (Feng Ming Bc. St, P1)
			India	Dharwar B
	1	JODP	Japan	Fukuyama (NHK1)
	0.1			23 st's (NHK1)
	0.5-0.02			7 st's (NHK1)
	20	HLKU	Korea, So.	Pusan (Hankuk (Munhwa)
	0.25			Kwandae-Ri (AFKN)
	0.05			Uijongbu (AFKN)
	10		Malaysia	Malacca (Engl. Sce)
	2	3ZC	New Zealand	Timaru (Comm. adv.)
	1	DXMV	Philippines	Cotabato (Mind Bc. Sy)
	5	DZYL		Meycauayan, Bulacan, Luzon (Bolin. Elec)
	1			Iloilo, Panay (Allied Bc. Center)
	1	DXMW		Digos, Davao, Mindano (Mind. Bc. Sy)
	1000		USSR	Dushanbé, Tadzhikistan (Foreign Sce)
	50			Abakan
1168			China (PR)	Fukien (Peoples Lib. Army)
1170	5	2CH	Australia	Sydney, NSW
	1	BED80	Taiwan	Taitung (BCC)
	1	BEE32		Taipei (Min. of Educ.)
	5	KOHO	Hawaii	Honolulu
	10		Hong Kong	H.K. (Comm Engl. Sce)
	5		India	Udaipur
	10	JOUK	Japan	Akita (NHK1)
	10	APD1	Pakistan	Dacca I (rf 1165 kHz)
	5	DZWN	Philippines	Dagupan, Luzon (N. Bc. Net)
	5	DZWJ		Lucena (Freedom Bc. Net)
	1	DYLL		Tacloban, Leyte (Visayan Bc. System)
1175			China (PR)	Hofei, Anheui
1178	1000		Ryukyu Isl.	Naha, Okinawa (VOA)
		30	USSR	Petropavlovsk (Kazakhst)
1180	5	3KZ	Australia	Melbourne, Vic
			China (PR)	Amoy-Fuchou area, Fukien (Taiwan Sce)
	50		India	Jabalpur
	2	2YW	New Zealand	Gisborne
	5	DYRF	Philippines	Mambling, Cebu (R. St. DYRF)
	2		Thailand	Bangkok (Min. of Educ.)
1187	30		USSR	Ust Kamenogorsk (Kazakhst)
1190	2	2NZ	Australia	Inverell, NSW (N. B'casters)
			China (PR)	Peking (Foreign Sce)
	1	BED32	Taiwan	Hualien (BCC)
	1	BEV46		Taipei (Min. Sheng Bc. St, P2)
	2.4	BEV57		Tainan (Voice of Victory)
	10	JOKP	Japan	Kitami (NHK1)
	50	HLKX	Korea, So.	Inchon (Team R)
	0.5	DZRM	Philippines	Bulacan, Luzon (Phil. Bc. Sce)
	5			Zamboanga, Mind. (Bayanihan Bc. Center)
1196	30		USSR	Kzyl Orda (Kazakhst)
1198			China (PR)	Amoy-Fuchou area, Fukien (Taiwan Sce)
1200	2	4GG	Australia	Southport, Qld (Gold Coast R. Bc. Co)
	2	5KA		Adelaide, SA
			China (PR)	Haikiou, Hainan
	100	BED50	Taiwan	Minhsiung (Chiai) (BCC)
		BEV71		Taipei (Shilin Hua Bc. St)
	20		India	Tirunelveli
	1			Bhopal B/Shillong
	5	JOBF	Japan	Kumamoto (Kum. Bc. Corp)

kHz	kW	Call	Country	Station/Location
1200	1	JOMO		Nanao (Hokuriku Bc. Co)
	1	JOFO		Kitakuushu (Mainichi Bc. Co)
	1	JOSW		Iida (Shinetsu Bc. Co)
	1	JOYF		Mito (Ibaraka Bc. Sy)
	0.1			1 station (private)
	5		Korea, So.	Tongduchon (AFKN "Bayonet")
	0.25		Macau	Macau (Em. de Radiodif. de M.)
	2	2ZW	New Zealand	Wanganui (Comm. adv.)
	1	DZEB	Philippines	Baras, Canaman, Luzon (Filipinas Bc. Net)
	1	DYRH		Bacolod, Negros (Allied Bc. Center)
	1	DXRS		Surigao, Mind. (R. Henry Canoy)
	10	HSAF	Thailand	Don Muang Airport (Royal Thai Air Force)
	1		Vietnam, No.	Hanoi (Foreign Sce) (v)
	0.05		Vietnam, So.	Dinh Tuong (Prov. st) (v)
	10			Chu Lai (AFVN (AFRTS)
1210	2	2GF	Australia	Grafton, NSW (Grafton Bc)
	2	3YB		Warrnambool, (Ass. Bc. St)
			China (PR)	Peking + 1 station
				Unknown (Foreign Sce)
	1	KZOO	Hawaii	Honolulu
	1		India	Bhutan
	20	JOOR	Japan	Osaka (Mainichi Bc. Sy)
	0.25	HLSW	Korea, So.	Jongsun (KBS)
	5	DZNL	Philippines	Nalinae, Luzon (Liberty Bc. Net)
	1	DXSY		Ozamiz, Mind (R. St. DXSY)
	1	DZMQ		Dagupan, Luz (Phil. Bc. Sce)
	0.25	DZLB		Los Banos, Laguna, Luzon (Univ. of the Philippines)
	10			Alabang (Muntinlupa), Luzon (Freedom Bc. Net)
	10	HSK24	Thailand	Surat Thani, Malay Peninsula (R. Thailand)
1214	100		USSR	Omsk (Omsk Oblast)
1220	2	4AK	Australia	Oakey, Qld (Brisbane Bc)
	2	5EP		Port Lincoln, SA (Eyre Peninsula Bc)
			China (PR)	Chengtu, Szechuan (v)
	1	BED79	Taiwan	Kaohsiung (BCC)
	1	BEV71		Taipei (Hua Sheng Bc. St, P2)
	1		India	Chandigarh/ Hyderabad C
	0.5			Patna
	10	JOJK	Japan	Kanazawa (NHK1)
	10		Malaysia	Johore Bahru (Chinese/Indian Sce)
	0.1	WXLG	Marshall Isl.	Kwajalein (US Army Base)
	2	1ZE	New Zealand	Kaikohe
	1	DYRV	Philippines	Catbalogan, Samar (R. Communic. of the Philipp.)
	1	DXSM		Jolo, Jolo (Phil. Bc. Sce)
	1			Tuguegarao, Cagayan de Oro, Luzon (N. Bc. Net)
	1			Daet, Luzon (Legaspi Bc. Sy)
	0.25			Sangley Point (US Air Force)
	0.1		Thailand	Khon Kaen (US Air Force)
	0.1			U Tapao (US Air Force)
	0.05			Green Hill (US Air Force)

kHz	kW	Call	Country	Station/Location
1230	10	2NC	Australia	Newcastle, NSW (ABC 1st Net)
			China (PR)	Changsha, Hunan
	1.5	BEV58	Taiwan	Taichung (Cheng Sheng)
		BEC45		Matsu Isl. (Kuang Hua Net)
	25		India	Bombay C
	1			Ranchi B
	0.5			Patiala
	5	JOGR	Japan	Aomori (Aomori Bc. Co)
	5	JOUR		Nagasaki (Nag. Bc. Co)
	1	HLCI	Korea, So.	Samchok (KBS)
	1	HLSU		Ulchin (KBS)
	1	DZSA	Philippines	Novaliches, Luzon (Delta Bc. Sy)
	1	DZAL		Legaspi, Luzon (Visayan Bc. Sy)
	1	DXCB		Butuan, Mind. (Vis. Bc. Sy)
	1			Bacolod, Negros (Cath. Welf. Org)
	10		Thailand	Udon Thani (Thai Army)
1240	2	3TR	Australia	Sale, Vic. (VBN)
	2	8DN		Darwin (Darwin Bc.)
	20		Brunei	Tutong
	1	XUD25	Cambodia	Phnom Penh
	1	BEV62	Taiwan	Hsinchu (Tai Sheng Bc. St)
	20		India	Varanasi
	10	JOTK	Japan	Matsue (NHK1)
	1	HLCF	Korea, So.	Sugipo (Sogwipo) (KBS)
	5			Chulwon (Chorwon) (VUNC)
	5	DZLT	Philippines	Lucena, Luzon (Luz. College)
	1	DYUL		Alumnera, Cebu (Audren. Inc.)
	1			Iligan, Mind. (Ass. Bc. Corp)
			Vietnam, No.	Hanoi (Foreign Sce)
1250	2	2DU	Australia	Dubbo, NSW (West. Bc.)
			China (PR)	2 stations
	1.5	BEC29	Taiwan	Kaohsiung (Milit. Bc. St)
	2		Hong Kong	Hong Kong (BFBS)
	20		India	Sangli
	0.1		Johnston Isl.	Air Force Base (AFRTS)
	2	1ZM	New Zealand	Auckland
	2	9PA	Papua and New Guinea	Port Moresby (ABC)
	5	DZTR	Philippines	Meycauayan (Manila), Luz. (N. Bc. Net)
	1			Sorsogon, Luzon (Legaspi Bc. System)
	5	KSDX	Ryukyu Isl.	Naha, Okinawa (FEBC)
	100		USSR	Khabarovsk (Foreign Sce)
1253	1		Vietnam, So.	Qui Nhon (Regional St)
1255	1	HSK32	Thailand	Thon Buri (Bangkok) (Pub. Rel. Dept.)
1260	2	3SR	Australia	Shepparton, Vic. (Assoc. Bc. Services)
	10	BEP22	Taiwan	Taipei (Police Bc. Net)
	1		India	Mercara/Shillong
	10	JOIR	Japan	Sendai (Tohoku Bc. Co)
	10		Malaysia	Ipoh (Chi./Ind. Sce)
	5	DYVM	Philippines	Cebu, Cebu (Central Philipp. Bc. Co)
1268	10		USSR	Fergana (Uzbekistan)
1270	5	2SM	Australia	Sydney, NSW
			China (PR)	Tengkou (Sanshengkung), Inner Mongolia + 3 st's
	1	BEV37	Taiwan	Taitung (Cheng Sheng)
	1			Chihshang (Cheng Sheng)
	5	KNDI	Hawaii	Honolulu
	10		India	Agartala
1270	1			Jaipur B
	10	JOFR	Japan	Fukuoka (Mainichi Bc. Co)
			Korea, No.	Unknown (v)
	50		Korea, So.	Kanghwa Island (VUNC)
	5	DZYE	Philippines	Camarines Sur, Luzon (Northern Bc. Net)
	1	DZVX		Daet, Luzon (N. Bc. Net)
	0.5	DZBW		Baguio, Luzon (Liberty Bc. Net)
	1			Tagum, Mind. (Bayanihan Bc. Center)
1276	10		Thailand	Bangkok (Army Transp. Dept)
1280	100		Afghanistan	Kabul
	5	3AW	Australia	Melbourne, Vic
			China (PR)	Peking + 1 station
	1	BED47	Taiwan	Tainan (BCC)
		BEC40		Peitou (Armed Forces St)
	1		India	Jamshedpur
	5	JOHW	Japan	Obihiro (Hokkaido Bc. Co)
	5	JOJR		Tokushima (Shikoku Bc. Corp)
	10		Malaysia	Malacca (Chi./Ind. Sce)
	2	2ZC	New Zealand	Napier (Comm. adv)
	10	DZRR	Philippines	Valenzuela, Bulacan, Luzon (R. Philipp. Net)
	5	DYRI		Iloilo, Panay (Vis. Bc. Sy)
1284			Korea, No	Kim-chaek (P1) (V)
1285			China (PR)	Tsinan, Shantung
1290	2	2TM	Australia	Tamworth, NSW (Tamworth R. Development Co)
			China (PR)	4 stations
	1.5	BEC27	Taiwan	Taichung (Mil. Bc. St)
	20		India	Bhuj
	10	JOHR	Japan	Sapporo (Hokkaido Bc. Co)
		HLAF	Korea, So	Kangnung (Yungdong Bc. Co)
	1	DZYQ	Philippines	Batangas, Luzon (Mabuhay Bc. System)
	1			Cagayan de Oro, Luzon (Visayan Bc. System)
	10	HSFI	Thailand	Ubol (Thai Army)
	10			Chon Buri (Thai Army)
1295			China (PR)	Amoy-Fuchou area, Fukien (Taiwan Sce)
			Thailand	Khon Kaen (Thai TV Co)
1300	2	4BK	Australia	Brisbane, Qld (Br. Bc)
			China (PR)	Peking + 1 station
				Unknown (Foreign Sce)
		BEV23	Taiwan	Taipei (Min. Pen. St, P1)
	20		India	Parbhani
	5	JOHP	Japan	Takamatsu (NHK1)
	1	JOLG		Tottori (NHK1)
	1	JOOK		Kyoto (NHK1)
	1	JOTQ		Hachinohe (NHK1)
	1			Komagane (NHK1)
	0.1			4 stations (NHK1)
	0.05			2 stations (NHK1)
	0.3		Laos	Vientiane (Local Sce)
	1	DZNN	Philippines	Lipa (Freedom Bc. Net)
	10			Davao, Mind. (Metr. Bc. Co)
	1			Orumarez Isl. (Far East Bc. Enterprises)
	1		Thailand	Bangsue (Armed Car School, "Yan Kro")
1304	50		USSR	Tselinograd (Kazahkst)
1305			Korea, No	Chongjin
1310	2	5AD	Australia	Adelaide, SA (Adv. Bc. Net)
	0.25		Ceylon	Anuradhapur (Nat. Sce, Sinhala)

kHz	kW	Call	Country	Station/Location
1310			China (PR)	Peking + 4 stations
				Fukien (Peop. Lib. Army)
		BEV57	Taiwan	Tainan (Voice of Victory)
		BEV76		Chunan (Tien Sheng St)
	5	KNUI	Hawaii	Wailuku, Maui
	50	JOLF	Japan	Tokyo (Nippon Sy. Inc)
	2	1ZH	New Zealand	Hamilton (Comm. adv)
	1	DZFF	Philippines	Malabon (Rizal), Luzon (Rep. Bc. System)
	1	DYML		Tagbilaran, Bohol (Visayan Bc. System)
	1			Jolo, Jolo (Bayanihan Bc. Center)
1313			USSR	Vladivostok-Khabarovsk region
1315	1	XUD26	Cambodia	Phnom Penh
	50		USSR	Chita (Chitin Obl)
1320	2	3BA	Australia	Ballarat, (Ballarat Bc)
	2	4NA		Nambour, Qld (Maroochy Bc. Co)
	2	6KY		Belmont (Perth), WA (Suntimes Bc)
			China (PR)	2 stations
	1	BEV45	Taiwan	Taipei (Min. Sheng Bc. St, P1)
	2		Fiji	Lautoka (Engl. Sce)
	2.5		India	Calcutta C
	1			Dharwar
	1	JOJP	Japan	Tsuruoka (NHK1)
	0.1			2 stations (NHK1)
		HLAK	Korea, So	Pohang (Pohang Bc. Co)
	0.25	HLCU		Ullungdo (KBS)
	0.4			Seoul (Korean Army, "Voice of Hope")
	0.13		Nauru	Nauru Island
	1	DYRX	Philippines	Roxas, Panay (Vis. Bc. Sy)
	1	DZYV		Gumaca, Quezon Prov., Luz
	1			Bacolod, Negros (Assoc. Bc. Corp)
	1			Santiago, Isabela, Luzon (Nation Bc. Corp)
	1			Olongapo, Luzon (Vanguard R. Net)
	1		Thailand	Sattahip (Thai Air Force)
	10	HSK		Tung Mahamek (Thai Air Force)
1330	2	3SH	Australia	Swan Hill, Vic (VBN)
	2	4BU		Bundaberg, Qld (Bund. Bc)
			China (PR)	Hotso, Tibet (Reg. Sce)
				Hsilinhaote (Silinhot), Inner Mongolia
				Peking + 4 stations
	1.5	BEC36	Taiwan	Tsoying (Mil. Bc. St)
	20		India	Bikaner
	0.35			Tezu
	10	JOSF	Japan	Nagoya (Tokai R. Bc. Co)
	1	DYVN	Philippines	Baybay, Leyte
	1	DZYG		Cabanatuan, Luzon (Vanguard R. Net)
	1			Iriga, Luzon (Vis. Bc. Sy)
1331	50		USSR	Tobolsk (Tyumen Obl)
	30			Tashkent (Uzbekistan)
1333	10		Thailand	Bangkok (Dusit Palace, Amphorn Sathan R. St)
1335			Korea, No.	Unknown (P1)
1340	2	SLF	Australia	Young, NSW (Young Bc)
	1	XED27	Cambodia	Phnom Penh
			China (PR)	Peking
				Unknown (Foreign Sce)
		BEC 48	Taiwan	Matsu Isl. (Kuang Hua Net)
	1	BEV 35		Taipei (Cheng Sheng)
	0.1		Japan	16 stations (NHK1)
1340	0.05			7 stations (NHK1)
	10	HLCY	Korea, So.	Yosu (KBS)
	2	2ZN	New Zealand	Nelson (Comm. adv.)
	5	DZMY	Philippines	Meycauayan (Manila), Luzon (Chronicle Bc. Net)
	1			San José, Antigua (Visayan Bc. System)
			USSR	Alma Atá (Kazakhstan)
1345			China (PR)	Hsinhailien (Hsinpu), Kiangsu (v)
	10	HSKU	Thailand	Ubol (R. Thailand)
1347			China (PR)	Amoy-Fuchou Area, Fukien (Taiwan Sce)
1348			China (PR)	Lienyünchiang, Kiangsu
1350	2	3GL	Australia	Geelong, Vic (Geel. Bc)
	2/1	4GY		Gympie, Qld (Gympie Bc. Co)
			China (PR)	Peking + 5 stations
				Tungliao, Inner Mongolia
	1.5	BEC 33	Taiwan	Hualien (Milit. Bc. St)
	1	BED 63		Chiayi (BCC)
	5	KLUE	Hawaii	Lihue, Kauai
	1		India	Cuttack B/Jullundur C
	10	JOER	Japan	Hiroshima (R Chugoku Co)
	1	KJQR	Mariana Isl.	Saipan, Trust Terr. of the Pacific Islands
	2	1ZC	New Zealand	Rotorua (Comm. adv)
	2/1	DZYS	Philippines	Santiago, Isabela, Luzon (Mabuhay Bc. System)
	1	DZYR		San Fernando, Luzon (Mabuhay Bc. System)
	1	DXRP		Davao, Mind (Phil. Bc. Sce)
	1			Cebu, Cebu (Eagle Bc. Corp)
	1		Thailand	Yala, Malay Peninsula (Thai Army)
1360	2	2NX	Australia	Bolwarra (Newcastle) NSW (Hunter Broadcasters)
			China (PR)	Hailaerh (Hailar), Inner Mongolia (Minority)
				Tungsheng, Inner Mong.
				Chilin (Kirin), Kirin
				Nanyang, Honan + 2 st's
	1	BEV 50	Taiwan	Sanchungshih (Taipei) (Chung Hua St, P1)
		BEV84		Nantao (Chung Hsing St)
	10		India	Dharwar A
	0.1		Japan	21 stations (NHK2)
	0.05			6 stations (NHK2)
	1		Korea, So.	Osan (AFKN "Comet")
	5	DYRL	Philippines	Bacolod, Negros Vis. Bc. Sy)
	1	DZRA		Virac, Catanduanes (Aquino Enterprises)
	0.5	DZXQ		Manila, Luzon (Mabuhay Bc. System)
	100	KSBU	Ryukyu Isl.	Okuma, Okinawa (FEBC)
	0.05		Vietnam, So.	10 stations (US Army)
1367			USSR	Petropavlovsk (Kazakhstan)
				Unknown, Siberia (Peace & Progress, Chinese)
1370	0.5	2LT	Australia	Lithgow, NSW (Lithgow Bc)
	2	4LM		Mt. Isa, Qld (N. Queensland Bc. Co)
	0.5	5SE		Mount Gambier, SA (Adv. Bc)
			China (PR)	6 stations
		BEV 96	Taiwan	Tainan (Tien Sheng St)
	10		India	Delhi C
	10	JORU	Japan	Hirosaki (NHK2)
	5	JOUC		Yamaguchi (NHK2)
	1	JONB		Nagano (NHK2)
	1	JOCZ		Takayama (NHK2)
	1	JOSD		Saga (NHK2)

kHz	kW	Call	Country	Station/Location
1370	1	JOAZ		Nayoro (NHK2)
	0.1	JOJV		Nanao (NHK2)
	2	2ZP	New Zealand	New Plymouth (Comm. adv.)
	2.5	DYVR	Philippines	Roxas, Panay (Pan. Bc. Corp)
	0.5	DZBS		Baguio, Luzon (R Phil. Net)
	20		Singapore	Singapore (Chi/Tamil Sce)
	1	HSPK	Thailand	Patani, Malay Peninsula (Pub. Rel. Dept.)
1372			China (PR)	Fuchou
1375				2 stations
1376	10		USSR	Vladivostok (Foreign Sce)
	30			Iman (Primor. Kray)
1380	2	2GN	Australia	Goulburn, NSW (Goulb. Bc)
	2	4MK		Mackay, Qld (Mackay Bc. Sce)
			China (PR)	Wulanhaote (Ulan Hot, Wangyehmiao), Inner Mong. (Minority) + 1 station)
	1	BED 23	Taiwan	Taichung (BCC)
	1	BEV 70		Shihlin (Hua Sheng Bc. St)
	5	KPOI	Hawaii	Honolulu
	1		India	Kurnool
	5			Hyderabad B
	20	JOUF	Japan	Osaka (Osaka Bc. Corp)
	10	DZTM	Philippines	Valenzuela, Bulacan, Luzon (Assoc. Bc. Corp)
	1		Thailand	Phitsanulok (4th Inf. Div.)
1385	0.25	WXLE	Marshall Isl.	Eniwetok (Air Force Base)
			USSR	Unknown Far East (Foreign Sce)
1390	2	4BH	Australia	Brisbane, Qld Macquarie Bc Net)
			China (PR)	Paotou Paotow), Inner Mongolia + 4 stations
	1	BED 87	Taiwan	Hsinchu (BCC)
		BEV70		Shilin (Shilin Hua Sheng Bc. St)
	1	BEV62		Hsinchu (Tai Sheng St)
		BEV98		Kaosiung (Cheng Kung Kwang)
		10	India	Imphal
	5			Gwalior
	10	JOQC	Japan	Morioka (NHK2)
	10	JOJB		Kanazawa (NHK2)
	10	JOHC		Kagoshima (NHK2)
		HLAS	Korea, So.	Mokpo (R. Mokpo Corp)
	0.1	1ZT	New Zealand	Turangi
	1	DXRM	Philippines	Marawi, Mind (Mind. Bc. Co)
	1	DZZL		Solano; Luzon (Vanguard R. Network)
	1			Bacolod, Negros (Vis. Bc. Sy)
1394	50		USSR	Bulun (Yakut ASSR)
1395			China (PR)	Kuangchou (Canton), Kuangt. (v)
1400	2	2PK	Australia	Parkes, NSW P. Bc. Co)
			China (PR)	4 stations
	1	BED65	Taiwan	Ilan (BCC)
	3.5	BEV98		Kaohsiung (Cheng Kung St)
	0.1	VKW	Cocos Island	Keeling (Austr. Civ. Air Dept.)
	1		India	Ahmedabad B/ B/Kharagpur
	0.5			Chandigarh
	1	JOQL	Japan	Kushiro (Hokkaido Bc. Co)
	5	JOVR		Shizuoka (Sh. Bc. Sy)
	0.5	JO3H		Hamamatsu (Shiz. Bc. Sy)
	0.1	JOVO		Unknown (Shiz. Bc. Sy)
	10	HLKP	Korea, So.	Pusan (Christ. Bc. Sy)
	1	HLCM		Iri (Christ. Bc. Sy)
	1			Unchon-Ni (AFKN "Gypsy")
1400	0.02		Maldives	Gan Island (R.A.F. Base)
	2	3ZM	New Zealand	Christchurch (Comm. adv.)
	0.5	DZYA	Philippines	Angeles, Pampanga Luzon
	2.5			Naga, Luzon (Legaspi Bc. Sy)
	4		Tahiti	Papeete
1410	2	2KO	Australia	Newcastle, NSW (MBN)
	120	XUD24	Cambodia	Phnom Penh (rf 1000 kHz)
			China (PR)	3 stations
	1	BED54	Taiwan	Miaoli (BCC)
	1	BED88		Taitung (BCC)
		BED67		Unknown (BCC)
	10	JOIF	Japan	Fukuoka (Kyushu Asahi Bc. Co)
	5	DZUP	Philippines	Diliman, Quezon, Luzon (Univ. of the Philipp.)
	1	DYMR		Cebu, Cebu (Phil. Bc. Sce)
	20		Thailand	Prachinburi
1420	5	3XY	Australia	Melbourne, Vic (Efftee Bc)
	5	KCCN	Hawaii	Honolulu
	1		India	Allahabad B/Madras B/Rajkot B
	10	JORF	Japan	Yokohama (R. Kanto)
	0.25	HLCP	Korea, So.	Pohang (KBS)
	2	1ZO	New Zealand	Tokoroa (Part-time comm. advertiser)
	1	DZOR	Philippines	Olongapo, Luzon (Freedom Bc. Net)
	1	DYRS		San Carlos, Negros (Allied Bc. Center)
	1	DZDL		Dagupan, Luzon (Ramón Encarnacion)
	10	ZM2AP	Samoa, We.	Apia (Afiamalu)
	10		Thailand	Songkhla
	0.25		Vietnam, So.	Dalat (Reg. St)
	0.05			Phu Yên (Prov. St)
1430	2	2WL	Australia	Wollongong, NSW (Woll. Bc)
			China (PR)	Fuchou, Fukien (Taiwan Sce)
	10	BEC73	Taiwan	Chingshui (Air Force Bc. St)
	1		India	Aurangabad
	3	JOVF	Japan	Wakayama (W. Bc. Corp)
	1	JOGO		Hachinohe (Aomori Bc. Co)
	1	JOZF		Gifu (R. Gifu Bc. Co)
	0.1	JOBO		Maizuru (KBS)
	0.05	JO4D		Kushimoto (WBC)
		HLAN	Korea, So.	Chunchon (Gangwon R. Corp)
	0.25	4XD	New Zealand	Dunedin (Private)
	1	DZLM	Philippines	Quezon, Luzon (Mareco Inc.)
	1	DXAS		Jolo, Jolo (FEBC)
	1			Dipolog, Mindanao (Marufo Villalba)
1440	2	2MW	Australia	Murwillumbah, NSW (Tweed R. Bc. Co)
	2	3CV		Maryborough, Vic (VBN)
			China (PR)	5 stations
	1	BEC60	Taiwan	Taipei (Air Force Bc. St)
	1		India	Kanpur/Jamshedpur
				Mangalore/Port Blair (Andamanes)
	1	JOJP	Japan	Tsuruoka (NHK1)
	1	JOZU		Uwajima (NHK1)
	0.1-0.05			4 stations (NHK1)
	1		Korea, So.	Wonju (AFKN)
	1			Kunsan (AFKN "Mercury")
	10	WSZO	Marshall Isl.	Majuro
	2	1ZK	New Zealand	Kaitaia (Comm. advert.)
	1	DYOO	Philippines	Iloilo, Panay (Rep. Bc. Sy)
	1	DZSU		Calapan (Bayanihan Bc. Center)
	1			Tarlac, Luzon (Cath. Welf. Org)

kHz	kW	Call	Country	Station/Location
1440	1		Vietnam, So.	Dalat (Regional St)
1445			China (PR)	Peking
	0.1		Malaysia	Butterworth (Penang)
1450	2	2MG	Australia	Mudgee, NSW (M. Bc. Co)
	2	5AU		Port Augusta, SA
	10	WSZD	Caroline Isl.	Ponape, Sanyavin Island
			China (PR)	6 stations
	3.5	BED48	Taiwan	Kaohsiung (BCC)
	0.1		Christmas Isl.	Christmas Island
	0.5		India	Warangal
	5	JOKF	Japan	Takamatsu (Nishi-Nippon Bc. Co)
	5	JOQM		Abashiri (Hokkaido Bc. Co)
			Pakistan	Karachi II
	1		Philippines	Cebu, Cebu (N. Bc. Net)
	0.1		Thailand	Korat (US Air Force)
	0.1			Phi Sanulok (US Air Forces)
	0.05			Camp Cloudy (US Air Forces)
1460	2/1	2NM	Australia	Muswellbrook, NSW (Hunter Bc)
	2/1	5MU		Murray Bridge Adelaide), SA (Advertiser Bc. Net)
			China (PR)	Huhohaote, Inner Mongolia
	1	BED82	Taiwan	Chiayi (BCC)
	20		India	Jeypore
	5	JOWF	Japan	Sapporo (Sapporo TV Bc. Co)
	1	JOPL		Hagi (Yamaguchi Bc. Co)
	1	JOUO		Saga (Nagasaki Bc. Co)
	0.1			Kobayashi (MRT)
	2	3YW	New Zealand	Westport
	10	DZBU	Philippines	Bulacan, Luzon (Bulletin R. Net)
	1	DXJO		Jolo, Jolo (FEBC)
	10	HS3RN	Thailand	Phuket, Malay Peninsula (Royal Navy St)
1466	30		USSR	Frunze, Kirghizstan (Mayak Prgr.)
1470	2	3MA	Australia	Mildura, Vic (Sunraysia Bc)
			China (PR)	3 stations
	1	BED81	Taiwan	Hualien (BCC)
	0.1	BED29		Unknown (BCC)
		BEC52		Kinmen Isl, (Kuang Hua Net)
		BEV46		Taipei (Min Sheng St)
	2		Fiji	Rakiraki
	10		India	Bhagalpur
	1	JOCC	Japan	Asahikawa (NHK2)
	1	JODD		Onomichi (NHK2)
	1	JOID		Oita (NHK2)
	1	JOKC		Kofu (NHK2)
	1	JOMC		Miyazaki (NHK2)
	1	JOVB		Hakodate (NHK2)
	0.5	JOIY		Wakkanai (NHK2)
	0.1			3 stations (NHK2)
	5	DYWN	Philippines	Bacolod, (Liberty Bc. Net)
	20		Thailand	Bangkok (Dept. of Territ. Defense)
1475			USSR	Khabarovsk (or Vladivostok)
1477			China (PR)	Chingtechen
1480	2/1	2BE	Australia	Bega, NSW
	2/1	4ZR		Roma, Qld (Maranoa Bc. Co)
	1	WSZA	Caroline Isl.	Yap
			China (PR)	Amoy-Fuchou area, Fukien (Taiwan Sce)
				Peking (Educational)
		BEV76	Taiwan	Miaoli (Tien Sheng St)
	1	BEC74		Taichung (Air Force Bc. St)
	1		India	Jaipur A/Tiruchi B
	2		International Waters	R. Hauraki, on board "Tiri", outside New Zealand
	1	JOMX	Japan	Nobeoka (NHK2)
	1	JOHV		Naze (NHK2)
	0.5-01			3 stations (NHK2)
	0.25		Korea, So.	3 stations (KBS)
1480	1			Taejon (AFKN)
	1	DYKR	Philippines	Kalibo, Panay (Vis. Bc. Sy)
	1	DZGK		Quezon, Luzon (Vis. Bc. Sy)
	1/0.5	DZJS		Novaliches, (Delta Bc. Sy)
	1	DZHG		Sorsogon, Luzon (Pan Oriental B'casters)
1490	2	2AY	Australia	Albury, NSW (Amalg. Wirel.)
			China (PR)	8 stations
	0.3	BEC39	Taiwan	Penghu Isl. (Milit. Bc. St)
	1		India	Kohima
	1			Srinagar C, Kashmir
	0.5			Indore/Mysore
	5	JOYR	Japan	Okayama (Sanyo Bc. Co)
	1	JOTL		Nayoro (Hokkaido Bc. Co)
	0.1-0.05			2 stations (private)
	1	DXOC	Philippines	Ozamiz, Mind. (R. Henry Canoy)
	0.5	DYAV		Cebu, Cebu (Abellana Nat. School)
	1			Angeles, Pampanga, Luzon (Nation Bc. Corp)
	0.1	KEAD	Wake Island	Wake Isl. (US Air Force)
1495			China (PR)	Fuchou, Fukien
	7		Maldives	Malé (nf 1507 kHz)
1500	0.015	KMSA	Antarctica	McMurdo Sound (A.F. Base)
	2	2BS	Australia	Bathurst, NSW (Bath. Bc)
	5	3AK		Melbourne, Vic (Melb. Bc)
	5	WSZC	Caroline Isl.	Moen
	1	WSZB		Koror, Palau Island
			China (PR)	Shanghai + 1 station
	1	BED83	China, Taiwan	Mobile St. (BCC)
	0.1	BED64		Unknown (BCC)
	0.1	BEV64		Hualien (Yen Sheng St)
	5	KUMU	Hawaii	Honolulu
	10		India	Vijayawada B
	1			Patna B
	0.1		Japan	3 stations (private)
	0.25	9NBM	Nepal	Kathmandu
	2	1ZA	New Zealand	Taupo (Part-time Comm.)
	0.5	DZAF	Philippines	Manila, Luzon (Phil. Bc. Sce)
	1			Bacolod, Negros (N. Bc. Net)
	10		Thailand	Bangkok (Thai TV Co, Pl)
	0.05		Vietnam, So.	Soc. Trang (AFRTS)
	0.1		Volcano Isl.	Iwo Jima (Air Force, FEN)
1502	10		USSR	Alma Atá, Kazakhstan
	10			Dushanbé, Tadzhikistan
1507	7		Maldives	Malé (rf 1495 kHz)
1510	10	2NA	Australia	Newcastle, NSW (ABC 2nd)
			China (PR)	Peking
				Amoy-Fuchou area, Fukien (Taiwan Sce)
				Huhohaote (Huhehot), Inner Mongolia
		BEH8	Taiwan	Taipei (Fu Hsing)
		BEH35		Taichung (Fu Hsing)
		BEH52		Taitung (Fu Hsing)
		BEH45		Kaohsiung (Fu Hsing)
		BEH64		Hsinchu (Fu Hsing)
	0.5		India	Amraoit
	5	JOZB	Japan	Matsuyama (NHK2)
	1	JOCD		Koriyama (NHK2)
	1	JOJD		Tsuruoka (NHK2)
	1	JOOB		Kyoto (NHK2)
	1	JOSC		Matsumoto (NHK2)
	1	JOTZ		Hachinohe (NHK2)
	0.5/0.05			3 stations (NHK2)
	0.25		Korea, So.	Pohang (AFKN)
	0.25			Chimhae (AFKN)
	0.25			Pyangyangdo (AFKN)
	0.05			Kwan Chon (AFKN)

kHz	kW	Call	Country	Station/Location
1510	1	DZEQ	Philippines	Baguio, Luzon (Phil. Bc. Sce)
1511	50		USSR	Aktjubinsk (Kazakhstan)
1520	2	2QN	Australia	Deniliquin, NSW (Haig-Muir Bc.)
			China (PR)	3 stations
	3	BEC23	Taiwan	Taipei (Mil. Bc. St)
		BEC30		Ilan (Mil. Bc. St)
	5		India	Bhopal A
	1	JODC	Japan	Hamamatsu (NHK2)
	1	JOTC		Aomori (NHK2)
	1	JOFC		Fukui (NHK2)
	1	JOJC		Yamagata (NHK2)
	1	JOLU		Yonago (NHK2)
	1	JOXB		Tokushima (NHK2)
	0.1/ 0.05			4 stations (NHK2)
	1	1ZU	New Zealand	Taumarumui (Part-time Comm. advertiser)
	5	DZEM	Philippines	Rizal (Manila), Luzon (Iglesia Ni Kristo)
	1	DYBB		Cebu, Cebu (Rep. Bc. Sy)
	1			Clark Field (US Air Force)
	1			Pampanga (US Air Force)
	20		Thailand	Bangkok (Thai Army)
	0.1			Takhli/Udorn (US Air Force)
	0.05			Chinag Mai/Koke Kathian (US Air Force)
	20		USSR	Kustanay (Kazakhst.)
1525	2000(?)		China (PR)	Urumchi, Sinkiang (Foreign Sce)
			USSR	Khabarovsk (Khab. Kray)
1530	2/0.5	2VM	Australia	Moree, NSW (Moree Bc. & Development Co)
	0.2	5LN		Port Lincoln, SA (ABC 3rd, Reg.)
	0.2	8AL		Alice Springs, North Terr. (ABC 3rd)
			China (PR)	4 stations
	1		India	Mathura
	0.5			Trichur
	1	JODO	Japan	Naoetsu (Bc. Sy of Niigata)
	1	JOAM		Uwajima (Nan Kai Bc. Co)
	1	JOXF		Utsunomiya (R Tochigi Co)
	1	HLKL	Korea, So.	Namwon (KBS)
	1	DZAR	Philippines	San Carlos (T. Romasanta)
	1			Salay, Mind. (Bayanihan Bc. Center)
	10	HSFP	Thailand	Uttaradit (Thai Army)
	50		USSR	Anadyr (Magadan Obl)
1538	10		USSR	Chelyabinsk (Chel. Obl)
1540	2	2CN	Australia	Canberra (ABC 1st Net)
	1		Cambodia	Battambang
			China (PR)	Fukien (Peop. Liber. Army)
	1	BED78	Taiwan	Tainan (BCC)
			India	Indore
	0.1		Japan	15 stations (NHK2)
	0.05			3 stations (NHK2)
	0.25	HLKZ	Korea, So.	Sunchon (KBS)
	1	2ZE	New Zealand	Blenheim (Comm. advert.)
	5	DZME	Philippines	Caloocan (Liberty Bc. Net)
	20	HS1CC	Thailand	Sara Buri (Thai Army)
			USSR	Unknown, East Siberia
	0.25		Vietnam, So.	Soc Trang (US Forces)
				Saigon? (VTVN) (v)
1542			China (PR)	Chining
1546	10	HSIA	Thailand	Bangkok (1st Inf. Div.) (nf 1570 kHz)
	10		USSR	Karaganda (Kazakhst.)
1550	50	4QD	Australia	Emerald, Qld (ABC 3rd, Reg.)
			China (PR)	Pingliang, Kansu
	2.5		India	Madras C
	1			Ajmer
	0.5			Gaya
	10		Japan	Itazuke (FEN)
	10	DYLA	Philippines	Liloan, Cebu (Voice of Labor)
	20		Thailand	Bangsue (Armed Car School, "Yan Kro")
			USSR	Khabarovsk (Khab. Kray)
1554	20		USSR	Tomsk (Tomsk Oblast)
1560	2	2RE	Australia	Taree, NSW (Nanning Valley Bc.)
			China (PR)	2 stations
	5		Taiwan	Taipei (US AFNT/ AFRTS)
	20		India	Siliguri
	0.1		Japan	14 stations (private)
	0.05			3 stations (private)
	1	2ZH	New Zealand	Hawera
	0.5	DZAT	Philippines	Manila, Luzon (Phil. College of Arts & Trade)
1568			China (PR)	Changsha, Hunan
1570	0.05	2CP	Australia	Cooma, NSW (ABC 3rd, Reg)
	0.2	2LG		Lithgow, NSW (ABC 3rd, Reg)
	0.2	3WL		Warrnambool, Vic. (ABC 3rd, Reg)
	0.2	4GM		Gympie, Qld (ABC 3rd, Reg)
			China (PR)	2 stations
	10		Hawaii	Honolulu
	20		India	Delhi D
	1			Mathura
	0.25		Japan	2 stations (FEN)
	1	HLCS	Korea, So	Sokcho (KBS)
	0.05	VL2NI	Norfolk Isl.	Kingston
	1		Philippines	Iligan, Mind.
	1			Urdaneta
	10	HSIA	Thailand	Bangkok (1st Inf. Div.) (rf 1546 kHz)
			USSR	Yuzhno-Sakhalinsk
	10			Semipalatinsk
1575			China (PR)	Wenchou, Chekiang
1580	2	2WN	Australia	Wollongong, NSW (ABC 3rd, Reg)
	0.2	5MG		Mount Gambier, SA (ABC 3rd, Reg)
	0.05	5WM		Woomera, SA (ABC 3rd, Reg)
			China (PR)	Chifeng, Inn. Mongolia
	1		Taiwan	Ching Chuan Kang (US AFNT)
	1		Japan	Iwakuni (FEN)
	0.25			Misawa (FEN)
	0.1			Wakkanai (FEN)
	5	DZSE	Philippines	Gubat (Freedom Bc)
	0.5	DZFU		Manila, Luzon (Feati Univ)
	1000		Thailand	Ban-Phachi, Saraburi Prov. (R. Free Asia)
1586	20		USSR	Kurgan (Tyumen Obl)
	50			Khabarovsk
1590	0.2	4SO	Australia	Southport, Qld
	2	5MV		Renmark, SA
			China (PR)	4 stations
	1		Taiwan	Tainan (US AFNT)
	10		India	Indore B
	10	JOGB	Japan	Kumamoto (NHK2)
	10	JOQB		Niigata (NHK2)
	10	JOTB		Matsue (NHK2)
	1	DYDR	Philippines	Cebu, Cebu
1594	50		USSR	Irkutsk (Irk. Obl)
1600	2/1	3NE	Australia	Wangaratta, Vic.
	2	6PH		Port Headland, WA
		BED77	Taiwan	Unknown (BCC)
	5	JOKB	Japan	Okayama (NHK2)
	1	JOGV		Hitoyoshi (NHK2)
	1	JOAC		Nagasaki (NHK2)
	1	JOSB		Kokura (NHK2)
	1	JOZY		Uwajima (NHK2)
	1			Enbetsu (NHK2)
	0.5	JOUZ		Hagi (NHK2)
	0.1-0.05			6 stations (NHK2)
	10	DZCH	Philippines	Bulacan, Luzon

NORTH AMERICA (incl Mexico)

compiled by the National Radio Club, USA

Explanation of listing:—
FIRST COLUMN — Call letters and location are required identification for U.S. and Canadian st's. each half hour. Symbols in front of the call letters are as follows: *Construction Permit for new station, not yet on air. †Construction permit for move to this frequency from a different frequency. In parenthesis, frequency and/or power changes will be designated by two symbols — CP, Construction Permit, and PO, Presently Operating.
SECOND COLUMN — In addition to the standard abbreviations for U.S. and Mexican states, and Canadian provinces, certain geographical city and town names have been abbreviated. These include: Bch., — Beach; Cd. — Ciudad; Cy. — City; E. — East; Ft. — Fort; Hts. — Heights; Mt. — Mount; Mtn. — Mountain; No. — North; Pk. — Park; So. — South; Spgs. — Springs; St. — Saint; Ty. — Territory; and W. — West.
FOURTH COLUMN — Contains authorized operating hours and directional antenna information. The symbols mean as follows: D is daytime operation (between local sunrise and local sunset), D1 without directional antenna, D3 with directional antenna. (Under a new ruling of the F.C.C. certain daytime st's can operate between 0600 local time and sunrise when it is later than 0600 with reduced power); L is limited time, and means a st. West of the dominant st. can operate from as early as sunrise at the dominant st's location; A st. east of the dominant st. can operate as late as the dominant st's. sunset. Number indicates directional pattern as under "U" below. SH equals "Specified Hours" and usually means a st. that would normally operate unlimited time files a schedule of reduced hours with the FCC because of economic reasons. ST means "Shares Time". This usually finds a college, university, or church st. on the air two or three hours a day, during which time the commercial st. signs off. U means the st. is authorized to operate any time up to 24 hours a day. U1 means without directional antenna; U2 means with directional antenna at night; U3 means directional antenna, same pattern, day and night; U4 means directional antenna, different pattern day and night; U5 means directional antenna daytime, non-directional at night. Two Canadian st. are listed N, night only. The operators of these st's have st's. on other frequencies which operate daytime only: 710/730; 710/1230kHz.

Call	Location	kW	Hrs.
540kHz			
KVIP	Redding, Calif.	1	D1
WGTO	Cypress Gardens, Fla.	50	D3
WDAK	Columbus, Ga.	5/0.5	U2
KWMT	Fort Dodge, Iowa	5	D3
KNOE	Monroe, La.	5/1	U4
WETC	Wendell-Zebulon, N.C.	5	D3
WDXN	Clarksville, Tenn.	1	D1
WRIC	Richlands, Va.	1	D1
CBT	Grand Falls, Nfld.	10	U1
CBEF	Windsor, Ont.	5/2.5	U3
CBK	Watrous, Sask.	50	U1
XEWA	San Luis Potosi, S.L.P.	150	U2
+ low power: 5 US/6 Can/1 Mex.			
550			
KENI	Anchorage, Alaska	5	U1
KOY	Pheonix, Ariz.	5/1	U1
KAFY	Bakersfield, Calif.	1	U2
KRAI	Craig, Colo.	5/0.5	U2
WAYR	Orange Park, Fla.	1	D1
WGGA	Gainesville, Ga.	5/0.5	U2
KFRM	Salina, Kans.	5	D3
WCBI	Columbus, Miss.	1/0.5	U4
KSD	St. Louis, Mo.	5	U2
KBOW	Butte, Mont.	5/1	U2
WGR	Buffalo, N.Y.	5	U2
KFYR	Bismarck, N.D.	5	U2
WKRC	Cincinnati, Ohio	5/1	U3
KOAC	Corvallis, Ore	5	U4
WHLM	Bloomsburg, Pa.	1	U4
WPAB	Ponce, P.R.	5/1	U1
WXTR	Pawtucket, R.I.	1/0.5	U2
KCRS	Midland, Tex.	5/1	U4
KTSA	San Antonio, Tex.	5	U2
WDEV	Waterbury, Vt.	5/1	U4
WSVA	Harrisonburg, Va.	5/1	U2
KARI	Blaine, Wash.	1/0.5	U4
WSAU	Wausau, Wis.	5	U4
CKPG	Prince George, B.C.	10/5	U4
CFNB	Fredericton, N.B.	50	U4
CFBR	Sudbury, Ont.	1	D1
CHLN	Trois-Rivieres, Que.	10/5	U4
XEAF	Guadalajara, Jal.	1	U1
XEUC	Tehuantepec, Oax.	1	U1
XEKL	Xalapa, Ver.	1/0.5	U1
XEQW	Merida, Yuc.	5	U1
560			
WOOF	Dothan, Ala.	5	D1
KYUM	Yuma, Ariz.	1	U2
KSFO	San Francisco, Calif.	5/1	U1
KLZ	Denver, Colo.	5	U3
WQAM	Miami, Fla.	5/1	U1
WIND	Chicago, Ill.	5	U4
WGAN	Portland, Me.	5	U3
WFRB	Frostburg, Md.	1	D1
WHYN	Springfield, Mass.	5/1	U3
WEBC	Duluth, Minn.	5	U4
KWTO	Springfield, Mo.	5	U2
KMON	Great Falls, Mont.	5	U2
WGAI	Elizabeth City, N.C.	1/0.5	U4
WCKL*	Catskill, N.Y.	1	D3
WFIL	Philadelphia, Pa.	5	U4
WIS	Columbia, S.C.	5	U2
WHBQ	Memphis, Tenn.	5/1	U4
KLVI	Beaumont, Tex.	5	U2
KPQ	Wenatchee, Wash.	5	U2
WJLS	Beckley, W. Va.	5/0.5	U2
CKNL	Fort St. John., B.C.	1	U2
CHTK	Prince Rupert, B.C.	1/0.25	U1
CHCM	Marystown, Nfld.	1/0.5	U1
CJKL	Kirkland Lake, Ont.	5	U2
CFOS	Owen Sound, Ont.	1	U4
CKCN	Sept-Illes, Que.	10/5	U3
XEOC	Mexico, D.F.	1/0.5	U1
+ low power: 2 US/2 Can.			
570			
WAAX	Gadsden, Ala.	5/0.5	U2
KCNO	Alturas, Calif.	5	D1
KLAC	Los Angeles, Calif.	5	U2
WACL	Waycross, Ga.	5/1	U2
WKYX	Paducah, Ky.	1/0.5	U4
WGMS	Bethesda, Md.	5/1	U4
WVMI	Biloxi, Miss.	1	D1
KGRT	Las Cruces, N.M.	5	D1
WMCA	New York, N.Y.	5	U3
WSYR	Syracuse, N.Y.	5	U4
WWNC	Asheville, N.C.	5	U2
WKBN	Youngstown, Ohio	5	U2
WNAX	Yankton, S.D.	5	U2
WFAA	Dallas, Tex.	5	ST4
WBAP	Fort Worth, Tex.	5	ST4
KLUB	Salt Lake City, Utah	5	U3
KVI	Seattle, Wash.	5	U1
CKEK	Cranbrook, B.C.	1	U3
CKCQ	Quesnel, B.C.	1	U4
CJEM	Edmundston, N.B.	5/1	U2
CFCB	Corner Brook, Nfld.	1	U1
CFWH	Whitehorse, Yukon Ty.	1	U1
XETJ	Torreon, Coah.	1/0.25	U1
XELQ	Morelia, Mich.	1	U1
XEBJB	Monterrey, N.L.	5/0.25	U1
XEOA	Oaxaca, Oax.	5/0.25	U1
XENZ	Culiacan, Sin.	1/0.25	U1
XEVX	Comalcalco, Tab.	1	U1
———	Godthaab, Greenland	25	U1
+ low power: 3 US			
580			
KIKX	Tucson, Ariz.	5/0.5	U2
KMJ	Fresno, Calif.	5	U1
KUBC	Montrose, Colo.	5/1	U2
WDBO	Orlando, Fla.	5	U2
WGAC	Augusta, Gla.	5/1	U2
KFXD	Nampa, Idaho	5	U2
WILL	Urbana, Ill.	5	D3
KSAC	Manhattan, Kans.	5/0.5	ST1
WIBW	Topeka, Kans.	5	ST2
KALB	Alexandria, La.	5/1	U2
WTAG	Worcester, Mass.	5	U4
WELO	Tupelo, Miss.	1/0.5	U4
KANA	Anaconda, Mont.	1	D1
KWIN	Ashland, Ore.	1	U4
WHP	Harrisburg, Pa.	5	U2
WKAQ	San Juan, P.R.	5	U1
WRKH	Rockwood, Tenn.	1	D1
WCHS	Charleston, W. Va.	5	U2
WKTY	LaCrosse, Wis.	5/1	U4
CKUA	Edmonton, Alta.	5/1	U4
CKXR	Salmon Arm, B.C.	1	U4
CKY	Winnipeg, Man.	50	U4
CJFX	Antigonish, N.S.	10	U3
CJLS	Yarmouth, N.S.	10	U4
CKAP	Kapuskasing, Ont.	1	U3
CFRA	Ottawa, Ont.	50/10	U4
CKPR	Port Arthur, Ont.	5/1	U1
CHLC	Hauterive, Que.	5/2.5	U4
XEMU	Piedras Negras. Coah	5/0.25	U1
XEUE	Tuxtla Gutierrez, Chis.	1	U1
XEFI	Chihuahua. Chih.	5/0.25	U1
XEAV	Guadalajara, Jal.	10/1	U1
XEHP	Cd. Victoria, Tams.	1/0.25	U1
XEDZ	Cordoba, Ver.	1	U1
+ low power: 5 US/2 Can.			
590			
WRAG	Carrollton, Ala.	1	D1
KHAR	Anchorage, Alaska	5	U1
KBHS	Hot Springs, Ark.	5	D1
KFXM	San Bernardino, Calif.	1	U4
KTHO	So. Lake Tahoe, Calif.	1	D1
KCSJ	Pueblo, Colo.	1	U3
WDLP	Panama City, Fla.	1	U2
WPLO	Atlanta, Ga.	5	U2
KID	Idaho Falls, Ida.	5/1	U2

Call	Location	kW	Hrs.
WRTH	Wood River, Ill.	0.5/1	U4
WVLK	Lexington, Ky.	5/1	U4
WEEI	Boston, Mass.	5	U3
WKZO	Kalamazoo, Mich.	5	U2
WJMS	Ironwood, Mich.	5/1	U2
WOW	Omaha, Nebr.	5	U1
WROW	Albany, N.Y.	5/1	U4
WGTM	Wilson, N.C.	5	U4
KUGN	Eugene, Ore.	5/1	U2
WARM	Scranton, Pa.	5	U4
WMBS	Uniontown, Pa.	1	U2
KTBC	Austin, Tex.	5/1	U2
KSUB	Cedar City, Utah	1	U2
WLVA	Lynchburg, Va.	1	U4
KHQ	Spokane, Wash.	5	U1
CFTK	Terrace, B.C.	1	U3
CFAR	Flin Flon, Man.	10/1	U5
VOCM	St. John's Nfld.	10	U2
CKEY	Toronto, Ont.	10	U4
CKRS	Jonquierre, Que.	1	U4
XEPH	Mexico, D.F.	5	U1
XEE	Durango, Dgo.	1	U1
XEFD	Rio Bravo, Tams.	5/0.25	U1
+ low power: 2 US/2 Can/1 Mex.			
600			
WIRB	Enterprise, Ala.	1	D1
KCLS	Flagstaff, Ariz.	5/0.5	U2
KVCV	Redding, Calif.	1	U3
KOGO	San Diego, Calif.	5	U3
KEWE	Fort Collins, Colo.	1	D3
WICC	Bridgeport, Conn.	1/0.5	U3
WPDQ	Jacksonville, Fla	5	U2
WMT	Cedar Rapids, Iowa	5	U2
WWOM	New Orleans, La.	1	D1
WFST	Caribou, Me.	5	D1
WCAO	Baltimore, Md.	5	U3
WLST	Escanaba, Mich.	1	D3
WTAC	Flint, Mich.	1/0.5	U3
KGEZ	Kalispell, Mont.	1	U4
WCVP	Murphy, N.C.	1	D1
WSJS	Winston-Salem, N.C.	5	U4
KSJB	Jamestown, N.D.	5	U3
WFRM	Coudersport, Pa.	1	D1
WAEL	Mayaguez, P.R.	1	U3
WREC	Memphis, Tenn.	5	U4
KROD	El Paso, Tex.	5	U2
KERB	Kermit, Tex.	1	D3
KTBB	Tyler, Tex.	1	U2
WVAR	Richmond, W. Va.	1	D1
CJOR	Vancouver, B.C.	10	U3
CBNA*	St. Anthony, Nfld.	10	U4
CKCL	Truro, N.S.	1	U3
CFCH	North Bay, Ont.	10/5	U4
CFCF	Montreal, Que.	5	U3
CFQC	Saskatoon, Sask.	5	U2
XEDN	Torreon, Coah.	1	U1
XEBB	Acapulco, Gro.	5/1	U1
XEZ	Merida, Yuc.	2	D1
+ low power: 1 US/2 Can/3 Mex.			
610			
WSGN	Birmingham, Ala.	5/1	U2
KAVL	Lancaster, Calif.	1/0.5	U4
KFRC	San Francisco, Calif.	5	U1
WTOR	Torrington, Conn.	1/0.5	U4
WIOD	Miami, Fla.	5	U4
KDAL	Duluth, Minn.	5	U2
WDAF	Kansas City, Mo.	5	U1
KOJM	Havre, Mont.	1	U4
KCSR	Chadron, Neb.	1	D1
WGIR	Manchester, N.H.	5/1	U4
KGGM	Albuquerque, N.M.	5	U2
WAYS	Charlotte, N.C.	5/1	U4
WTVN	Columbus, Ohio	5	U2
WIP	Philadelphia, Pa.	5	U3
KILT	Houston, Tex.	5	U4
KVNU	Logan, Utah	5/1	U2
WSLS	Roanoke, Va.	5/1	U4
KEPR	Kennewick-Richland-Pasco, Wash.	5	U4
CKYL	Peace River, Atla.	10/1	U2
*	Kamloops, B.C.	1/0.5	U3
*	Whitehorse, Y.T.	1	U1
CJAT	Trail, B.C.	1	U1
CHTM	Thompson, Man.	1	U1
CKTB	Ste. Catherines, Ont.	10/5	U3
CKML	Mont Laurier, Que.	1	U1
CHNC	New Carlisle, Que.	10/5	U3
XEBX	Sabinas, Coah.	5/0.5	U1
XEUF	Uruapan, Mich.	5/1	U1
XEKZ	Tehuantepec, Oax.	1	U1
XECV	Cd. Valles, S.L.P.	1/0.25	U1
XEGS	Guasave, Sin.	5	U1
XEJA	Xalapa, Ver.	1	U1
XEEL	Fresnillo, Zac.	1	U1
+ low power: 4 US/1 Can.			
620			
KTAR	Phoenix, Ariz.	5	U2
KNGS	Hanford, Calif.	1	U2
KWSD	Mt. Shasta, Calif.	1	D1
KSTR	Grand Junction, Colo.	1	D1
WSUN	St. Petersburg, Fla.	5	U2
WTRP	La Grange, Ga.	1	D1
KWAL	Wallace, Ida.	1	U2
KMNS	Sioux City, Iowa	1	U4
WLBZ	Bangor, Me.	5	U2
WJDX	Jackson, Miss.	5/1	U2
WVNJ	Newark, N.J.	5	U4
WHEN	Syracuse, N.Y.	5/1	U2
WDNC	Durham, N.C.	5/1	U4
KGW	Portland, Ore.	5	U3
WHJB	Greensburg, Pa.	1/0.5	U4
WATE	Knoxville, Tenn.	5	U4
KWFT	Wichita Falls, Tex.	5	U2
WVMT	Burlington, Vt.	5	U4
WWNR	Beckley, W. Va.	1/0.5	U2
WTMJ	Milwaukee, Wis.	5	U2
*	Prince George, B.C.	10	U2
CKCM	Grand Falls, Nfld.	10	U3
CFCL	Timmins, Ont.	10/5	U4
CKCK	Regina, Sask.	5	U2
XEBU	Chihuahua. Chih.	5	U1
XENK	Mexico, D.F.	10/5	U2
XECK	Durango, Dgo.	1/0.1	U1
XEOO	Tepic, Nay.	1	U1
XEACM	Villa Hermosa, Tab.	1	U1
+ low power: 2 US.			
630			
WAVU	Albertville, Ala.	1	D1
WJDB	Thomasville, Ala.	1	D1
KYAK	Anchorage, Alaska	5	D1
KJNO	Juneau, Alaska	1/0.5	U1
KVMA	Magnolia, Ark.	1	D1
KIDD	Monterey, Calif.	1	U4
KHOW	Denver, Colo.	5	U2
WMAL	Washington, D.C.	5	U4
WSAV	Savannah, Ga.	5	U2
KIDO	Boise, Idaho	5	U4
WLAP	Lexington, Ky.	5/1	U3
KDWB	St. Paul, Minn.	5/0.5	U3
KXOK	St. Louis, Mo.	5	U4
KGVW	Belgrade, Mont.	1	D1
KOH	Reno, Nev.	5/1	U2
WIRC	Hickory, N.C.	1	D1
WMFD	Wilmington, N.C.	1	U4
KWRO	Coquille, Ore.	5	D1
WQBS	San Juan, P.R.	1	U2
WPRO	Providence, R.I.	5	U2
KMAC	San Antonio, Tex.	5	U4
KSXX	Salt Lake City, Utah	1	D3
KGDN	Edmonds, Wash.	5	D1
CHED	Edmonton, Alta.	10	U1
CKOV	Kelowna, B.C.	5/1	U1
CKRC	Winnipeg, Man.	10	U2
CFCO	Chatham, Ont.	10/1	U4
CKAR	Huntsville, Ont.	1	U3
CJET	Smith Falls, Ont.	10	U4
CFCY	Charlottetown, P.E.I.	10	U4
CHLT	Sherbrooke, Que.	10/5	U4
XETS	Tapachula, Chis.	1/0.25	U1
XEACA	Acapulco, Gro.	1	U1
XEFB	Monterrey, N.L.	10	U4
XETK	Mazatlan, Sin.	1/0.25	U1
XEFU	Cosamaloapan, Ver.	5/0.75	U1
+ low power: 5 US/2 Can/2 Mex.			
640			
KFI	Los Angeles, Calif.	50	U1
WOI	Ames, Iowa	5	D1
WHLO	Akron, Ohio	1	L3
WNAD	Norman, Okla.	1	D1
CBN	St. John's, Nfld.	10	U1
650			
WSM	Nashville, Tenn.	50	U1
XEZM	Zamora, Mich.	5	D1
XETNT	Los Mochis, Sin.	1	D1
	Godhavn, Greenland	5	U1
+ low power: 1 US/1 Mex.			
660			
KFAR	Fairbanks, Alaska	10	U1
KOZN	Omaha, Neb.	1	D1
WNBC	New York, N.Y.	50	U1
WESC	Greenville, S.C.	10	SH3
KSKY	Dallas, Texas	10	D1
XERPM	Mexico, D.F.	10/5	U2
670			
KBOI	Boise, Ida.	50/52	U2
WMAQ	Chicago, Ill.	50	U1
XETOR	Torreon, Coah.	1	D1
XEIS	Cd. Guzman, Jal.	1	D1
680			
KNBR	San Francisco, Calif.	50	U1
WWBA	St. Petersburg, Fla	1	D1
WRNG	No. Atlanta, Ga.	5	D1
WCTT	Corbin, Ky.	1	U2
WCBM	Baltimore, Md.	10/5	U4
WRKO	Boston, Mass.	50	U3
WDBC	Escanaba, Mich.	10/1	U4
KFEQ	St. Joseph, Mo.	5	U4
WINR	Binghampton, N.Y.	1/0.5	U4
WPTF	Raleigh, N.C.	50	U2
WAPA	San Juan, P.R.	10	U1
WMPS	Memphis, Tenn.	10/5	U2
KBAT	San Antonio, Tex.	50/10	U2
KOMW	Omak, Wash.	1	D1
WCAW	Charleston, W.Va.	10/0.25	U2
CHFA	Edmonton, Alta.	5	U3
CJOB	Winnipeg, Man.	10/2,5	U2
CJCN	Grand Falls, Nfld.	10	U4
CHLO	St. Thomas, Ont.	1	U3
CKGB	Timmins, Ont.	10	U4
CHFI	Toronto, Ont.	1/10	U4
XEKQ	Tapachula, Chis.	5	U1
XEFO	Chihuahua, Chih.	1	D1
XELG	Leon, Gto.	10/5	U2
XEFJ	Teziutlan, Pue.	1	U2
XEORO	Guasave, Sin.	1	D1
+low power: 2 US.			
690			
WVOK	Birmingham, Ala.	50	D1
††KEOS	Flagstaff, Ariz.	1/0.5	U4
WAPE	Jacksonville, Fla.	50/10	U2
KBLI	Blackfoot, Ida.	1	D1
KGGF	Coffeyville, Kans.	10/5	U4
WTIX	New Orleans, La.	10/5	U4
KSTL	St. Louis, Mo.	10/5	D1
KEYR	Terrytown, Nebr.	1	D3
KRCO	Prineville, Ore.	1	D1
KUSD	Vermillion, S.D.	1	D3
KHEY	El Paso, Tex.	10	U4
KZEY	Tyler, Tex.	1	D3
WCYB	Bristol, Va.	10	D1
CBU	Vancouver, B.C.	10	U3
CBF	Montreal, Que.	50	U1
XETRA	Tijuana, B.C.	50	U4
XEN	Mexico, D.F.	20/5	U1
+low power: 10 US/1 Can/1 Mex.			
700			
WLW	Cincinnati, Ohio	50	U1
XEAR	Guadalajara, Jal.	1	D1
XEVC	Cordoba, Ver.	0.5	D1
710			
WKRG	Mobile, Ala.	1/0.5	U2
KMPC	Los Angeles, Calif.	50/10	U2
KBTR	Denver, Colo.	5	U3

Call	Location	kW	Hrs.
WGBS	Miami, Fla.	50	U4
WUFF	Eastman, Ga.	1	D1
WROM	Rome, Ga.	1	D1
KEEL	Shreveport, La.	50/5	U4
WHB	Kansas City, Mo.	10/5	U4
WOR	New York, N.Y.	50	U3
WKJB	Mayaguez, P.R.	1/0.5	U1
KGNC	Amarillo, Tex.	10	U4
KIRO	Seattle, Wash.	50	U2
WDSM	Superior, Wis.	5	U2
CJOX	Grand Bank, Nfld.	1	U1
CHYR	Leamington, Ont.	10	D3
CKVM	Ville-Marie, Que.	10/1	U2
CFRG	Gravelbourg, Sask.	5	D1
XERL	Colima, Col.	1	U1
XEON	Tuxtla Gutierrez, Chis.	2	U1
XEMP	Mexico, D.F.	1.2/0.6	U3
XEKU	Acapulco, Gro.	1	U1
XEBL	Culiacan, Sin.	5/0.25	U1
XEPQ	Müsqüiz, Coah.	1/0.1	U1
+ low power: 2 US/2 Mex.			
720			
WGN	Chicago, Ill.	50	U1
*	Las Vegas, Nev.	50/10	U2
730			
WJMW	Athens, Ala.	1	D1
WLOR	Thomasville, Ga.	5	D1
KLOE	Goodland, Kans.	1	D1
WFMW	Madisonville, Ky.	1	D1
WMTC	Vancleve, Ky.	1	D1
WJTO	Bath, Me.	1	D1
WACE	Chicopee, Mass.	5	D1
KWOA	Worthington, Minn.	1	D1
KWRE	Warrenton, Mo.	1	D1
KVOD	Albuquerque, N.M.	1	D3
WDOS	Oneonta, N.Y.	1	D1
WFMC	Goldsboro, N.C.	1	D1
WOHS	Shelby, N.C.	1	D1
WMGS	Bowling Green, Ohio	1	D3
KBOY	Medford, Ore.	1	D1
WNAK	Nanticoke, Pa.	1	D1
WPIT	Pittsburgh, Pa.	5	D1
WPAL	Charleston, S.C.	1	D1
WLIL	Lenoir City, Tenn.	1	D1
KSVN	Ogden, Utah	1	D1
WPIK	Alexandria, Va.	5	D3
WMNA	Gretna, Va.	1	D3
KULE	Ephrata, Wash.	1	D1
WXMT	Merrill, Wis.	1	D1
CKLG	Vancouver, B.C.	10	U4
CKDM	Dauphin, Man.	10/5	U2
CKGA*	Gander, Nfld.	1	U3
CJNR	Blind River, Ont.	1	U2
CKAC	Montreal, Que.	50	U3
XEX	Mexico, D.F.	150	U3
+ lower power: 6 US/4 Can/7 Mex.			
740			
WBAM	Montgomery, Ala.	50	D3
KMEO	Phoenix, Ariz.	1	D3
KBIG	Avalon, Calif.	10	D3
KCBS	San Francisco, Calif.	50	U4
KSSS	Colorado Springs, Colo.	1/0.25	U4
KVFC	Cortez, Colo.	1/0.25	U2
WSBR	Boca Raton, Fla.	1	D3
WKIS	Orlando, Fla.	5/1	U2
WNOP	Newport, Ky.	1	D3
KRAD	Carlshad, N.M.	1	D1
WGSM	Huntingdon, N.Y.	5	D3
WMBL	Morehead City, N.C.	1	D1
WPAQ	Mt. Airy, N.C.	10	D1
KRMG	Tulsa, Okla.	50/25	U4
WVCH	Chester, Pa.	1	D1
WIAC	San Juan, P.R.	10	U3
WBAW	Barnwell, S.C.	1	D1
KTRH	Houston, Tex.	50	U4
KCMC	Texarkana, Tex.	1	U3
CBX	Edmonton, Alta.	50	U4
CBNM*	Marystown, Nfld.	10	U2
CBL	Toronto, Ont.	50	U1
+ low power: 8 US/9 Can.			
750			
KFQD	Anchorage, Alaska	10	U1
WSB	Atlanta, Ga.	50	U1
WBMD	Baltimore, Md.	1	D1
KMMJ	Grand Island Nebr.	10	L3
WHEB	Portsmouth, N.H.	1	L1
KXL	Portland, Ore.	50	L3
WPDX	Clarksburg, W. Va.	1	D1
760			
KFMB	San Diego, Calif.	5	U2
WJR	Detroit, Mich.	50	U1
WCPS	Tarboro, N.C.	1	D1
WORA	Mayaguez, P.R.	5	U3
XEABC	Mexico, D.F.	5	U4
XEDGO	Durango, Dgo.	1	D1
XEZZ	Guadalajara, Jal.	5	D1
XEEQ	San Luis Potosi, S.L.P.	0.25	D1
770			
KUOM	Minneapolis, Minn.	5	STD1
WCAL	Northfield, Minn.	5	STD1
WEW	St. Louis, Mo.	1	D1
KOB	Albuquerque, N.M.	50	U2
WABC	New York, N.Y.	50	U1
KXA	Seattle, Wash.	1	L1
+ low power: 2 Mex.			
780			
WBBM	Chicago, Ill.	50	U1
WJAG	Norfolk, Nebr.	1	L1
WCKB	Dunn, N.C.	1	D1
WBBO	Forest City, N.C.	1	D1
KCRL*	Reno, Nev.	50	U2
WAVA	Arlington, Va.	1	D1
+ low power: 2 US.			
790			
WTUG	Tuscaloosa, Ala.	1	D1
KCAM	Glenallen, Alaska.	5	U1
KCEE	Tucson, Ariz.	5/0.5	U3
KOSY	Texarkana, Ark.	1/0.5	U2
KABC	Los Angeles, Calif.	5	U2
WLBE	Leesburg-Eustis, Fla.	5/1	U2
WPFA	Pensacola, Fla.	1	D1
WFUN	South Miami, Fla.	5	U4
WQXI	Atlanta, Ga.	5/1	U2
WGRA	Cairo, Ga.	1	D1
KEST	Boise, Ida.	1	D1
KBRV	Soda Springs, Ida.	5	D1
KXXX	Colby, Kans.	5	D1
WAKY	Louisville, Ky.	5/1	U4
WRUM	Rumford, Me.	1	D1
WSGW	Saginaw, Mich.	5/1	U4
KGHL	Billings, Mont.	5	U2
WWNY	Watertown, N.Y.	1	U2
WLSV	Wellsville, N.Y.	1	D1
WTNC	Thomasville, N.C.	1	D1
KFGO	Fargo, N.D.	5	U2
KWIL	Albany, Ore.	1	U4
WAEB	Allentown, Pa.	1	U4
WPIC	Sharon, Pa.	1	D1
WEAN	Providence, R.I.	5	U4
WWBD	Bamberg-Denmark, S.C.	1	D1
WETB	Johnson City, Tenn.	1	D1
WMC	Memphis, Tenn.	5	U2
KTHT	Houston, Tex.	5	U4
KFYO	Lubbock, Tex.	5/1	U4
KUTA	Blanding, Utah	1	D1
WSIG	Mt. Jackson, Va.	1	D1
WTAR	Norfolk, Va.	5	U2
KGMI	Bellingham, Wash.	5/1	U2
KJRB	Spokane, Wash.	5	U2
WEAQ	Eau Claire, Wis.	5	U2
CFCW	Camrose, Alta.	10	U4
CKMR	Newcastle, N.B.	1	U3
	Corner, Brook, Nfld.	10	U1
CFDR	Dartmouth, N.S.	5	U3
CHIC	Brampton, Ont.	1/0.5	U1
CKSO	Sudbury, Ont.	10/5	U4
XEBI	Aguascalientes, Ags.	1/0.25	U1
XESU	Mexicali, B.C.	1	D1
XENT	La Paz, B.C.S.	5/7.5	U1
XEGZ	Torreon, Coah.	1/0.25	U1
XERPC	Chihuahua, Chih.	5	U1
XERC	Mexico, D.F.	10/1	U1
XEVA	Villa Hermosa, Tab.	5	U1
XEFE	Nuevo Laredo, Tams.	1/0.5	U1
+ low power: 2 U.S.			
800			
WHOS	Decatur, Ala.	1	D1
WMGY	Montgomery, Ala.	1	D1
KINY	Juneau, Alaska	5	U1
WLAD	Danbury, Conn.	1	D1
*WRKV	Rockville, Conn.	1	D3
WSUZ	Paltaka, Fla.	1	D1
WJAT	Swainsboro, Ga.	1	D1
KXIC	Iowa City, Iowa	1	D3
WSHO	New Orleans, La.	1	D3
WCCM	Lawrence, Mass.	1	D1
KREI	Farmington, Mo.	1	D1
WTMR	Camden, N.J.	5	D3
KPDQ	Portland, Ore.	1	D1
WCHA	Chambersburg, Pa.	1	D1
WDSC	Dillon, S.C.	1	D1
WDEH	Sweetwater, Tenn.	1	D1
WSVS	Crewe, Va.	5	D1
WKEE	Huntington, W. Va.	5	D1
WDUX	Waupaca, Wis.	5	D3
†CJJC	Langley, B.C.	5	U4
CKOK	Penticton, B.C.	10/0.5	U1
VOWR	St. John's, Nfld.	1	U3
CJBQ	Belleville, Ont.	10	U4
CFOB	Fort Francis, Ont.	1/0.5	U1
CJLX	Fort William, Ont.	10/5	U3
CKLW	Windsor, Ont.	50	U4
CJAD	Montreal, Que.	50/10	U4
CHRC	Quebec, Que.	50	U4
CHAB	Moose Jaw, Sask.	10	U2
XEMMM	Tijuana, B.C.	1	D1
XELO	Cd. Juarez, Chih.	150	U1
XEAN	Ocotlan, Jal.	1	D1
+ low power: 10 US			
810			
KGO	San Francisco, Calif.	50	U3
KWSR	Rifle, Colo.	1	D1
WEKG	Jackson, Ky.	1	D1
WSJC	Magee, Miss.	50/0.25	U4
KCMO	Kansas City, Mo.	50/10	U2
KAFE	Santa Fe, N.M.	5	D1
WGY	Schenectady, N.Y.	50	U1
WKBC	No. Wilkesboro, N.C.	1	D1
WCEC	Rocky Mount, N.C.	1	D1
WEDO	McKeesport, Pa.	1	D1
WKVM	San Juan, P.R.	25	U3
WQIZ	St. George, S.C.	5	D1
KBHB	Sturgis, S.D.	5	D1
WMTS	Murfreesboro, Tenn.	5	D1
KWDR	Del Rio, Tex.	1	D1
CHQR	Calgary, Alta.	10	U4
*	Winnipeg, Man.	10	U3
XEOE	Tapachula, Chis.	1	U1
XEUX	Tuxpan, Nay.	5	D1
XERSV	Cd. Obregon	5	D1
XEFW	Tampico, Tams.	50	U2
+ low power: 5 US/2 Mex.			
820			
WAIT	Chicago, Ill.	5	L1
WOSU	Columbus, Ohio	5	L1
WFAA	Dallas, Tex.	50	STI
WBAP	Fort Worth, Tex.	50	STI
XESB	Santa Barbara, Chih.	1	D1
XEBA	Guadalajara, Jal.	1	D1
XEKG	Fortin de las Flores, Ver.	1	D1
	Frederikshaab, Greenland	5	U1
830			
WCCO	Minneapolis, Minn.	50	U1
KBOA	Kennett, Mo.	1	D1

Call	Location	kW	Hrs.
WNYC	New York, N.Y.	1	L3
XELA	Mexico, D.F.	10/5	U3
XENSM	Culiacan, Sin.	1	D1
840			
WMOB	Mobile, Ala.	1	D1
WRYM	New Britain, Conn.	1	D1
WHAS	Louisville, Ky.	50	U1
XEFG	Celaya, Gto.	1	D1
+ low power: 1 US/1 Mex.			
850			
WYDE	Birmingham, Ala.	10/1	U2
KICY	Nome, Alaska	5	U1
KGKO	Benton, Ark.	1	D1
KOA	Denver, Colo.	50	U1
WRUF	Gainesville, Fla.	5	U2
WEAT	W. Palm Beach, Fla.	1	U3
WHDH	Boston, Mass.	50	U4
WKBZ	Muskegon, Mich.	1	U3
KFUO	Clayton, Mo.	5	L1
WKIX	Raleigh, N.C.	10/5	U2
WJW	Cleveland, Ohio	10/5	U4
WJAC	Johnstown, Pa.	10	U3
WEEU	Reading, Pa.	1	U2
WIVK	Knoxville, Tenn.	50	D3
WRAP	Norfolk, Va.	5/1	U4
KTAQ	Tacoma, Wash.	10/1	U4
CKRD	Red Deer, Alta.	10/1	U2
CJJC	Langley, B.C.	1	U4
CKVL	Verdun, Que.	50/10	U4
XEZR	Zaragoza, Coah.	1	D1
XEAL	Manzanillo, Col.	1/0.25	U1
XEM	Chihuahua, Chih.	5	D1
XEMIA	Guadalajara, Jal.	1	D1
XEUS	Hermosillo, Son.	1	U1
XETQ	Orizaba, Ver.	10/5	U2
+ low power: 2 US/2 Mex.			
860			
WAMI	Opp, Ala.	1	D1
KIFN	Phoenix, Ariz.	1	D1
KOSE	Oseola, Ark.	1	D1
KTRB	Modesto, Calif.	10/1	U4
WKKO	Cocoa, Fla.	1	D1
WERD	Atlanta, Ga.	1	D1
WDMG	Douglas, Ga.	5	U2
KOAM	Pittsburgh, Kans.	10/5	U2
WAYE	Baltimore, Md.	1	D3
KNUJ	New Ulm, Minn.	1	D1
WFMO	Fairmount, N.C.	1	D1
KSHA	Medford, Ore.	1	D1
WTEL	Philadelphia, Pa.	10	D3
WAMO	Pittsburgh, Pa.	1	D3
WLBG	Laurens, S.C.	1	D1
KSFA	Nacogdoches, Tex.	1	D1
KONO	San Antonio, Tex.	5/1	U2
KWHO	Salt Lake City, Utah	1	D1
WEVA	Emporia, Va.	1	D1
WOAY	Oak Hill, W. Va.	10	D1
CFPR	Prince Rupert, B.C.	10	U3
CHAK	Inuvik, N.W.T.	1	U1
CBH	Halifax, N.S.	10	U2
CJBC	Toronto, Ont.	50	U1
XEMO	Tijuana, B.C.	5	U1
XEUN	Mexico, D.F.	5	U1
XEDU	Durango, Dgo.	1/0.25	U1
XERK	Tepic, Nay.	1	U1
XENL	Monterrey, N.L.	5/2	U2
XENW	Culiacan, Sin.	1/0.25	U1
XEZX	Tenosique, Tab.	1/0.15	U1
+ low power: 15 US/23 Can.			
870			
WWL	New Orleans, La.	50	U3
WKAR	East Lansing, Mich.	10	D3
WHCU	Ithaca, N.Y.	5/1	L1
WGTL	Kannapolis, N.C.	1	D1
WHOA	San Juan, P.R.	5	U3
WFLO	Farmville, Va.	1	D1
XELY	Morelia, Mich.	1	D1
+ low power: 2 US.			
880			
†KRVN	Lexington, Nebr.	50	U4
WCBS	New York, N.Y.	50	U1
WRRZ	Clinton, N.C.	1	D1
WRFD	Worthington, Ohio	5	D1
XETZ	Tequilla, Jal.	1	D1
XEEM	Rio Verde, S.L.P.	1	D1
890			
WLS	Chicago, Ill.	50	U1
WHNC	Henderson, N.C.	1	D1
KBYE	Oklahoma City, Okla.	1	D1
900			
WATV	Birmingham, Ala.	1	D1
WGOK	Mobile, Ala.	1	D3
WOZK	Ozark, Ala.	1	D1
KFRB	Fairbanks, Alaska	10	U1
KHOZ	Harrison, Ark.	1	D1
KBIF	Fresno, Calif.	1	D1
WJWL	Georgetown, Del.	1	D1
WSWN	Belle Glade, Fla.	1	D1
WMOP	Ocala, Fla.	5	D1
WCGA	Calhoun, Ga.	1	D1
WEAS	Savannah, Ga.	5	D1
WFIA	Louisville, Ky.	1	D1
WLSI	Pikeville, Ky.	5	D1
WCME	Brunswick, Me.	1	D1
WLMD	Laurel, Md.	1	D1
WATC	Gaylord, Mich.	1	D1
KTIS	Minneapolis, Minn.	1	D1
WDDT	Greenville, Miss.	1	D1
KFAL	Fulton, Mo.	1	D1
KJSK	Columbus, Nebr.	1	D1
WOTW	Nashua, N.H.	1	D1
WBRV	Boonville, N.Y.	1	D1
WAYN	Rockingham, N.C.	1	D1
WIAM	Williamston, N.C.	1	D1
KFNW	Fargo, N.D.	1	D1
WCPA	Clearfield, Pa.	1	D1
WFLN	Philadelphia, Pa.	1	D3
WKXV	Knoxville, Tenn.	1	D1
KALT	Atlanta, Tex.	1	D1
WAFC	Staunton, Va.	1	D1
KUEN	Wenatchee, Wash.	1	D1
CJVI	Victoria, B.C.	10	U3
CKDH	Amherst, N.S.	1	U4
CKDR	Dryden, Ont.	1/0.25	U1
CHML	Hamilton, Ont.	5	U3
CHNO	Sudbury, Ont.	10/1	U4
CJBR	Rimouski, Que.	10	U2
CKJL	St. Jerome, Que.	1	U3
CKTS	Sherbrooke, Que.	10	U4
CKVD	Val d'Or, Que.	10/2.5	U3
CKBI	Prince Albert, Sask.	10	U4
XEW	Mexico D.F.	250	U1
+ low power: 13 US/4 Can/1 Mex.			
910			
KPHO	Phoenix, Ariz.	5	U2
KLCN	Blytheville, Ark.	5	D1
KAMD	Camden, Ark.	5/0.5	U4
KDEO	El Cajon, Calif.	1	U4
KNEW	Oakland, Calif.	5	U2
KOXR	Oxnard, Calif.	5/1	U4
KPOF	Denver, Colo.	5/1	SH1
WRCH	New Britain, Conn.	5	U4
WPLA	Plant City, Fla.	1	D1
WGAF	Valdosta, Ga.	5	U2
KBGN	Caldwell, Ida.	1	D1
WSUI	Iowa City, Iowa	5	SH4
WLCS	Baton Rouge, La.	1	U3
WABI	Bangor, Me.	5	U2
WFDF	Flint, Mich.	5/1	U4
WCOC	Meridian, Miss.	5/1	U1
KOYN	Billings, Mont.	1	D1
KBIM	Roswell, N.M.	5/0.5	U2
WRKL	New City, N.Y.	1	D3
WLAS	Jacksonville, N.C.	5	D1
KCJB	Minot, N.D.	1	U2
WBRJ	Marietta, O.	5	D3
WPFB	Middletown, O.	1/0.1	U1
KGLC	Miami, Okla.	1	U3
KURY	Brookings, Ore.	1	D1
WAVL	Apollo, Pa.	1	D1
WGBI	Scranton, Pa.	1/0.5	U1
WSBA	York, Pa.	5/1	U4
WPRP	Ponce, P.R.	5/0.5	U1
WORD	Spartanburg, S.C.	5/1	U4
WJCW	Johnson City, Tenn.	5/1	U2
KNAF	Frederiksburg, Tex.	1	D1
KRIO	McAllen, Tex.	5/1	U4
KRRV	Sherman, Tex.	1	U3
KALL	Salt Lake City, Utah	5/1	U2
WNHV	White River Junction, Vt.	1	D1
WRNL	Richmond, Va.	5	U2
WTOY	Roanoke, Va.	1	D1
KORD	Pasco, Wash.	1	D1
KIXI	Seattle, Wash.	1	U3
KISN	Vancouver, Wash.	5	U4
WHSM	Hayward, Wis.	5	D1
WDOR	Sturgeon Bay, Wis.	1	D1
CJDV	Drumheller, Alta.	5	U4
CFJC	Kamloops, B.C.	10/1	U1
CKLY	Lindsay, Ont.	1	U3
CBO	Ottawa, Ont.	5	U3
CHRL	Roberval, Que.	1	U2
XEHO	Cd. Obregon, Son.	1/0.25	U1
+ low power: 4 US/1 Can/1 Mex.			
920			
WCTA	Andalusia, Ala.	5/0.5	U2
WWWR	Russellville, Ala.	1	D1
KSRM	Soldatna, Alaska	5	U1
KARK	Little Rock, Ark.	5	U2
KDES	Palm Springs, Calif.	5/0.5	U4
KVEC	San Luis Obispo, Calif.	1/0.5	U1
KREX	Grand Junction, Colo.	5/0.5	U1
KLMR	Lamar, Colo.	5/0.5	U2
WMEG	Eau Gallie, Fla.	1	U2
WGST	Atlanta, Ga.	5/1	U1
WMOK	Metropolis, Ill.	1	D1
WBAA	West Lafayette, Ind.	5/1	U2
KFNF	Shenandoah, Iowa	1/0.5	U1
WTCW	Whitesburg, Ky.	5	D1
WBOX	Bogalusa, La.	1	D1
KTOC	Jonesboro, La.	1	D1
WMPL	Hancock, Mich.	1	D1
KDHL	Faribault, Minn.	5	U4
KWAD	Wadena, Minn.	1	U2
KWYS	West Yellowstone, Mont.	1	D1
KORK	Las Vegas, Nev.	5/0.5	U2
KOLO	Reno, Nev.	5/1	U2
WTTM	Trenton, N.J.	1	U3
KQEO	Albuquerque, N.M.	1/0.5	U2
WKRT	Cortland, N.Y.	1/0.5	U2
WGHQ	Kingston, N.Y.	5	D3
WIRD	Lake Placid, N.Y.	5	D1
WBBB	Burlington, N.C.	5	D1
WMNI	Columbus, O.	1/0.5	U4
KGAL	Lebanon, Ore.	1	U3
WKVA	Lewiston, Pa.	1/0.5	U2
WJAR	Providence, R.I.	5	U2
WTND	Orangeburg, S.C.	1	D1
KEZU	Rapid City, S.D.	1	D1
WLIV	Livingston, Tenn.	1	D1
KELP	El Paso, Tex.	1/0.5	U2
KBZB	Odessa, Tex.	1/0.5	U2
KTLW	Texas City, Tex.	1	D1
KITN	Olympia, Wash.	1	D1
KXLY	Spokane, Wash.	5	U1
WMMN	Fairmount, W.Va.	5	U2
WOKY	Milwaukee, Wis.	5/1	U4
CFRY	Portage la Prairie, Man.	1	U3
CJCJ	Woodstock, N.B.	1	U4
CJCH	Halifax, N.S.	10/5	U2
CKCY	Sault Ste. Marie, Ont.	10/5	U4
CKNX	Wingham, Ont.	2.5/1	U4
XEMJ	Piedras Negras, Coah.	1/0.25	U1
XEQD	Chihuahau, Chih.	1	D1
XEVV	Tüxtla Gutierrez, Chis.	5/0.25	
XELT	Guadalajara, Jal.	1	U1
XEOK	Monterrey, N.L.	1	U1
XEBM	San Luis Potosí, S.L.P.	5/1	U1
XECQ	Culiacan, Sin.	1/0.1	U1
XEBR	Hermosillo, Son.	5/1	U1
+ low power: 5 US/3 Mex.			

Call	Location	kW	Hrs.
930			
WJBY	Gadsden, Ala.	1	D1
KTKN	Ketchikan, Alaska	5/1	U1
KAPR	Douglas, Ariz.	1	D1
KAFF	Flagstaff, Ariz.	5	D1
KHJ	Los Angeles, Calif.	5	U2
KIUP	Durango, Colo.	5/1	U2
WJAX	Jacksonville, Fla.	5	U2
WKXY	Sarasota, Fla.	1/0.5	U4
WMGR	Bainbridge, Ga.	5/0.5	U2
KSEI	Pocatello, Ida.	5	U2
WTAD	Quincy, Ill.	5/1	U2
WKCT	Bowling Green, Ky.	1/0.5	U2
WFMD	Frederick, Md.	5/1	U4
WBCK	Battle Creek, Mich.	5/1	U4
KKIN	Aitkin, Minn.	1	D1
WSLI	Jackson, Miss.	5	U2
KWOC	Poplar Bluff, Mo.	5/0.5	U2
KYSS	Missonia, Mont.	5	D1
WWNH	Rochester, N.H.	5	U2
WPAT	Paterson, N.J.	5	U4
KCCC	Carlsbad, N.M.	1	D1
WBEN	Buffalo, N.Y.	5	U2
WIZR	Johnstown, N.Y.	1	D3
WSOC	Charlotte, N.C.	5/1	U2
WITN	Washington, N.C.	5/1	U2
WEOL	Elyria, Ohio	1	U4
WKY	Oklahoma City, Okla.	5	U2
KAGI	Grants Pass, Ore.	5/1	U2
*KSWB	Seaside, Ore.	1	D1
WCNR	Bloomsburg, Pa.	1	D1
KSDN	Aberdeen, S.D.	1	U2
WSEV	Sevierville, Tenn.	5	D1
KDET	Center, Tex.	1	D1
KITE	Terrell Hills, Tex.	5/1	U2
WLLL	Lynchburg, Va.	5	D1
KBFW	Bellingham-Ferndale, Wash.	1	D1
KQOT	Yakima, Wash.	1	D1
WSAZ	Huntingdon, W. Va.	5/1	U2
WLBL	Auburndale, Wis.	5	D1
KROE	Sheridan, Wyo.	1	D1
CJCA	Edmonton, Alta.	50	U2
CFBC	St. John, N.B.	10/5	U4
CJON	St. John's, Nfld.	10	U2
+ low power: 6 US.			
940			
KFRE	Fresno, Calif.	50	U4
WINE	Brookfield, Conn.	1	D1
WINZ	Miami, Fla.	50/10	U4
WMAZ	Macon, Ga.	50/10	U4
WMIX	Mount Vernon, Ill.	5	D3
KIOA	Des Moines, Iowa	10/5	U4
WCND	Shelbyville, Ky.	1	D1
WYLD	New Orleans, La.	10/0.5	U4
WIDG	St. Ignace, Mich.	5	D1
WJOR	South Haven, Mich.	1	D3
WCPC	Houston, Miss.	50	D3
KVSH	Valentine, Nebr.	5	D1
WFNC	Fayetteville, N.C.	10/1	U2
KGRL	Bend, Ore.	1	D1
WGRP	Greenville, Pa.	1	D3
*	Lebanon, Pa.	1	D1
WIPR	San Juan, P.R.	10	U3
KIXZ	Amarillo, Tex.	5/1	U4
KTON	Belton, Tex.	1	D3
KATQ	Texarkana, Tex.	1	D1
WNRG	Gurndy, Va.	5	D1
WCSW	Shell Lake, Wis.	1	D1
CJIB	Vernon, B.C.	10/1	U1
CBM	Montreal, Que.	50	U1
CJGX	Yorkton, Sask.	10	U1
XEWV	Mexicali, B.C.	1	D1
XEQ	Mexico, D.F.	100/50	U1
XERKS	Reynosa, Tams.	1	D1
+ low power: 8 US/2 Can.			
950			
WRMA	Montgomery, Ala.	1	D1
KIBH	Seward, Ala.	1	SH1
KXJK	Forrest City, Ark.	5	D1
KFSA	Fort Smith, Ark.	1/0.5	U2
KAHI	Auburn, Calif.	5	D3
KIMN	Denver, Colo.	5	U3
WLOF	Orlando, Fla.	5	U2
WGTA	Summerville, Ga.	5	D1
WGOV	Valdosta, Ga.	5/1	U2
KATN	Boise, Ida.	5	D1
KLER	Orofino, Id.	1	U2
WGRT	Chicago, Ill.	1	D1
WXLW	Indianapolis, Ind.	5	D3
KOEL	Oelwein, Iowa	5/0.5	U4
WYWY	Barbourville, Ky.	1	D1
WAGM	Presque Isl, Me.	5	U4
*WXLN	Potomac-Cabin John, Md.	1	D3
WRYT	Boston, Mass.	5	D1
WWJ	Detroit, Mich.	5	U2
KRSI	St. Louis Park, Minn.	1	U4
WBKH	Hattiesburg, Miss.	5	D1
KLIK	Jefferson City, Mo.	5/0.5	U2
KNFT	Bayard, N.M.	1	D1
WBBF	Rochester, N.Y.	1	U4
WIBX	Utica, N.Y.	5	U3
KYES	Roseburg, Ore.	1	D1
WPEN	Philadelphia, Pa.	5	U2
WSPA	Spartanburg, S.C.	5	U2
KWAT	Watertown, S.D.	1	U2
WAGG	Franklin, Tenn.	1	D1
KPRC	Houston, Tex.	5	U2
KSEL	Lubbock, Tex.	5/0.5	U4
WXGI	Richmond, Va.	5	D1
KJR	Seattle, Wash.	5	U2
WKAZ	Charleston, W. Va.	5/1	U2
WERL	Eagle River, Wis.	1	D1
KMER	Kemmerer, Wyo.	5	D1
CFAM	Altona, Man.	10	U4
CKNB	Campbellton, N.B.	10/1	U4
CHER	Sydney, N.S.	10	U3
CKBB	Barrie, Ont.	10/2.5	U4
XEGM	Tijuana, B.C.	2.5	U1
XEYJ	Nueva Rosita, Coah.	1/0.1	U1
XERN	Montemorelos, N.L.	1	D1
+ low power: 7 US/1 Mex.			
960			
WBRC	Birmingham, Ala.	5	U2
KOOL	Phoenix, Ariz.	5	U2
KAVR	Apple Valley, Calif.	5	D1
KABL	Oakland, Calif.	5	U3
WELI	New Haven, Conn.	5	U2
WJCM	Sebring, Fla.	1	D1
WJAZ	Albany, Ga.	5	D3
WRFC	Athens, Ga.	5/0.5	U2
KSRA	Salmon, Ida.	1	D1
WDLM	East Moline, Ill.	1	D3
WSBT	South Bend, Ind.	5	U4
KMA	Shenandoah, Iowa	5	U2
WPRT	Prestonburg, Ky.	5	D1
KROF	Abbeville, La.	1	D1
WBOC	Salisbury, Md.	5/1	U
WFGL	Fitchburg, Mass.	1	U4
WHAK	Rogers City, Mich.	5	D1
KLTF	Little Falls, Minn.	5	D1
WABG	Greenwood, Miss.	1/0.5	U2
KFVS	Cape Girardeau, Mo.	5/0.5	U2
KFLN	Baker, Mont.	5	D1
KNEB	Scottsbluff, Nebr.	1/0.5	U4
KWYK	Farmington, N.M.	1	D1
KRIK	Roswell, N.M.	1	D1
WEAV	Plattsburg, N.Y.	5	U4
WAAK	Dallas, N.C.	1	D1
WFTC	Kinston, N.C.	5/1	U2
WWST	Wooste, Ohio	1	D1
KGWA	Enid, Okla.	1	U3
KLAD	Klamath, Falls, Ore.	5	D1
WHYL	Carlisle, Pa.	5	D3
WKZA	Kane, Pa.	1	D1
WATS	Sayre, Pa.	1	D1
WBEU	Beaufort, S.C.	1	D1
KIMP	Mt. Pleasant, Tex.	1	D1
KGKL	San Angelo, Tex	5/1	U2
KOVO	Provo, Utah	5/1	U2
WDBJ	Roanoke, Va.	5	U2
KALE	Richland, Wash.	1	U2
WTCH	Shawano, Wis.	1	U2
CFAC	Calgary, Alta.	10	U2
CHNS	Halifax, N.S.	10	U2
CKWS	Kingston, Ont.	10/5	U4
ZFBI	Hamilton, Bermuda	5	U1
XECS	Manzanillo, Col.	1	U1
XEHK	Guadalajara, Jal.	1/0.25	U1
XEUQ	Zihuatanejo, Jal.	1/0.25	
XEMM	Morelia, Mich.	1	U1
XEROO	Chetumal, Q.R.	1	U1
XEIQ	Cd. Obregon, Son.	1	U1
XEK	Nuevo Laredo, Tams.	5/1	U1
XEGB	Coatzacoalcos, Ver.	1	U1
XEOZ	Xalapa, Ver.	1	U1
+ low power: 3 US/1 Can/3 Mex.			
970			
WERH	Hamilton, Ala.	5	D1
WTBF	Troy, Ala.	5/0.5	U2
KVWM	Show Low, Ariz.	5	D1
KNEA	Jonesboro, Arik.	1	D1
KBIS	Bakersfield, Calif.	1	U4
KCHV	Coachella, Calif.	5/1	U4
KBEE	Modesto, Calif.	1	U4
KFEL	Pueblo, Colo.	1	D1
*WBOM	Jacksonville, Fla.	1	D3
WFLA	Tampa, Fla.	5	U2
WIIN	Atlanta, Ga.	5	D3
WVOP	Vidalia, Ga.	5	D1
KAYT	Rupert, Idaho	1	D1
WMAY	Springfield, Ill.	1/0.5	U4
WAVE	Louisville, Ky.	5	U4
KSYL	Alexandria, La.	1	U2
WCSH	Portland, Me.	5	U2
WESO	Southbridge, Mass.	1	D1
WCKD	Ishpeming, Mich.	5	D1
WKHM	Jackson, Mich.	1	U4
KQAQ	Austin, Minn.	5/0.5	U4
WRKN	Brandon, Miss.	1	D3
KOOK	Billings, Mont.	5	U2
KJLT	North Platte, Nebr.	5	D1
WJRZ	Hackensack, N.J.	5	U4
KDCE	Espanola, N.M.	1	D1
WEBR	Buffalo, N.Y.	5	U3
WRCS	Ahoskie, N.C.	1	D1
WWIT	Canton, N.C.	1	D1
WDAY	Fargo, N.D.	5	U2
WREO	Ashtabula, O.	5/1	U4
WATH	Athens, O.	1	D1
KAKC	Tulsa, Okla.	1/0.5	U4
KOIN	Portland, Ore.	5	U2
WWSW	Pittsburgh, Pa.	5	U4
WJMX	Florence, S.C.	5/1	U2
KHFI	Austin, Tex.	5	D3
KBSN	Crane, Tex.	1	D1
KNOK	Ft. Worth, Tex.	1	D1
WSTX	Christiansted, Virgin Is.	5/1	U1
WYPR	Danville, Va.	1	D1
WANV	Waynesboro, Va.	5/1	U4
KREM	Spokane, Wash.	5/1	U2
WWYO	Pineville, W. Va.	1	D1
WHA	Madison, Wis.	5	D1
CBZ	Fredericton, N.B.	10	U2
CKCH	Hull, Que.	5	U3
CJYR	Edson, Alta	10	U
XEJ	Cd. Juarez, Chih.	10/5	U1
XEDF	Mexico, D.F.	10/5	U2
XECJ	Apatzingan, Mich.	1/0.25	U1
XEOW	Mazatlan, Sin.	1/0.25	U1
XEVT	Villa Hermosa, Tab.	5/0.4	U1
XEBJ	Cd. Victoria, Tams.	1/0.25	U1
XEO	Matamoros, Tams	1	U1
XEMH	Merida, Yuc.	1/0.5	U1
+low power: 4 US/1 Can/2 Mex.			
980			
WKLF	Clanton, Ala.	1	D1
KCAB	Dardenelle, Ark.	1	D1

Call	Location	kW	Hrs.
KINS	Eureka, Calif.	5/0.5	U2
KFWB	Los Angeles, Calif.	5	U1
KCTY	Salinas, Calif.	1	D3
KGLN	Glenwood Spgs. Colo.	1	D1
WSUB	Groton, Conn.	1	D1
WRC	Washington, D.C.	5	U2
WDVH	Gainesville, Fla.	5	D1
WTOT	Marianna, Fla.	1	D1
WBOP	Pensacola, Fla.	1	D1
WLOD	Pompano Beach, Fla.	1	D3
WKLY	Hartwell, Ga.	1	D1
WPGA	Perry, Ga.	1	D1
KUPI	Idaho Falls, Ida.	1	D1
KSGM	Chester, Ill.	1/0.5	U2
WITY	Danville, Ill.	1	U4
KCIJ	Shreveport, La.	5	D1
WCAP	Lowell, Mass.	1	D1
WAOP	Otsego, Mich.	1	D1
WPBC	Richfield, Minn.	5	U3
WAPF	McComb, Miss.	5	D1
WKOR	Starkville, Miss.	1	D1
KMBZ	Kansas City, Mo.	5	U2
KLYQ	Hamilton, Mont.	1	D1
KVLV	Fallon, Nev.	5	D1
KICA	Clovis, N.M.	1	U2
KMIN	Grants, N.M.	1	D1
WTRY	Troy, N.Y.	5	U3
WKLM	Wilmington, N.C.	5	D1
WAAA	Winston-Salem, N.C.	1	D1
WONE	Dayton, Ohio	5	U4
WILK	Wilkes-Barre, Pa.	5/1	U2
WAZS	Summerville, S.C.	1	D1
WYCL	York, S.C.	1	D3
KDSJ	Deadwood, S.D.	1	U2
WSIX	Nashville, Tenn.	5	U2
KFRD	Rosenberg-Richmond, Texas	1	D1
KSVC	Richfield, Utah	5	D1
WFHG	Bristol, Va.	5/1	U2
KUTI	Yakima, Wash.	5	D1
WHAW	Weston, W. Va.	1	D1
WCUB	Manitowoc, Wis.	1	D1
†WNBI	Park Falls, Wis.	1	D1
WPRE	Prairie du Chien Wis.	1	D1
CKNW	New Westminster, B.C.	50	U3
CFPL	London, Ont.	10/5	U4
CHEX	Peterborough, Ont.	10/5	U4
CBV	Quebec, Que.	5	U3
CKGM	Montreal, Que.	10	U3
CKRM	Regina, Saks.	10/5	U4
XENR	Nueva Rosita, Coah.	5/0.5	U1
XELC	La Piedad, Mich.	5	U1
XEXT	Tepic, Nay	1	U1
XEQG	Queretaro, Qro.	1/0.1	U5
XEKE	Navajoa, Son.	1/0.25	U1
XETU	Tampico, Tams.	10/1	U5
+low power: 4 US/1 Can/1 Mex.			
990			
WWWF	Fayette, Ala.	1	D1
KTKT	Tucson, Ariz.	10/1	U4
KKIS	Pittsburg, Calif.	5	U4
KGUD	Santa Barbara, Calif.	1	D3
KLIR	Denver, Colo.	1	D1
WFAB	South Miami, Fla.	5	U3
WHOO	Orlando, Fla.	50/5	U2
WDWD	Dawson, Ga.	1	D1
WCAZ	Carthage, Ill.	1	D1
WITZ	Jasper, Ind.	1	D1
KSVP	Artesia, N.M.	1/0.25	U1
WEEB	South Pines, N.C.	5	D1
WBTE*	Windsor, N.C.	1	D1
WJEH	Gallipolis, O.	1	D1
WIBG	Philadelphia, Pa.	50/10	U4
WVSC	Somerset, Pa.	5	D3
WPRA	Mayaguez, P.R.	1	U1
WLKW	Providence, R.I.	50	D3
WAKN	Aiken, S.C.	1	D1
WNOX	Knoxville, Tenn.	10	U2
KWAM	Memphis, Tenn.	10	D3
KTRM	Beaumont, Tex.	1	U3
KNIN	Wichita Falls, Tex.	10/1	U4
KDYL	Tooele, Utah	1	D1
WNRV	Narrows-Petersburg, Va.	5	D1
WANT	Richmond, Va.	1	D1
CBW	Winnipeg, Man.	50	U1
CBY	Corner Brook, Nfld.	10	U1
XECL	Mexicali, B.C.	5	U1
XEHZ	La Paz, B.C. S.	1	U1
XEBC	Cd. Guzman, Jal.	1/0.1	U1
XET	Monterrey, N.L.	50	U2
+ low power: 15 US/11 Can/2 Mex.			
1000			
WVOV	Huntsville, Ala.	10	D3
WQTY	Montgomery, Ala.	5	D3
KMLO	Vista, Calif.	1	D3
WKMK	Blountstown, Fla.	5	D3
WJST	Jupiter, Fla.	1	D3
WCFL	Chicago, Ill.	50	U4
WLMS	Leominster, Mass.	1	D1
WXTN	Lexington, Miss.	5	D1
WIQT	Horseheads, N.Y.	1	D1
WSPF	Hickory, N.C.	5	D1
KTOK	Oklahoma City, Okla.	5	U4
WIOO	Carlisle, Pa.	1	D1
WKYB	Hemingway, S.C.	5	D1
WGOG	Walhalla, S.C.	1	D1
KXRB	Sioux Falls, S.D.	10	D3
WHWB	Rutland, Vt.	1	D1
WKDE	Alta Vista, Va.	1	D1
WBNB	Charlotte Amalie, Virgin Is.	1	U1
KOMO	Seattle, Wash.	50	U2
CKBW	Bridgewater, N.S.	10	U2
XEFV	Cd. Juarez, Chih.	1	D1
XEOY	Mexico, D.F.	10	U1
+ low power: 3 US.			
1010			
KLRA	Little Rock, Ark.	10/5	U2
KCHJ	Delano, Calif.	5/1	U4
KCMJ	Palm Springs, Calif.	1/0.5	U4
KSAY	San Francisco, Calif.	10	D3
WCNU	Crestview, Fla.	1	D1
WBIX	Jacksonville Beach, Fla.	10	D3
WINQ	Tampa, Fla.	50	D3
WGUN	Atlanta, Ga.	50	D1
KSMN	Mason City, Iowa	1	D1
KDLA	DeRidder, La.	1	D1
WSID	Baltimore, Md.	1	D1
WMOX	Meridian, Miss.	10/1	U3
KXEN	St. Louis, Mo.	50	D4
KRVN	Lexington, Nebr.	25	D3
WINS	New York, N.Y.	50	U3
WABZ	Albermarle, N.C.	1	D1
WFGW	Black Mountain, N.C.	50	D5
WELS	Kinston, N.C.	1	D1
WIOI	New Boston, O.	1	D1
WHIN	Gallatin, Tenn.	1	D1
KDJW	Amarillo, Tex.	5/0.5	U3
KODA	Houston, Tex.	5	D3
KAWA	Waco-Marlin, Tex.	10	D3
WELK	Charlottesville, Va.	1	D1
WMEV	Marion, Va.	1	D1
WPMH	Portsmouth, Va.	5	D3
WSPT	Stevens Point, Wis.	1	D1
CBR	Calgary, Alta.	50	U4
CFRB	Toronto, Ont.	50	U4
XEDX	Ensénada, B.C.	1/0.25	U1
XEVK	Torreon, Coah.	5	U1
XETX	Nuevo Casas Grandes, Chih.	1/0.25	U1
XEHL	Guadalajara, Jal.	10/5	U1
XEWS	Culiacan, Sin.	5	U1
XEFM	Veracruz, Ver.	1	U1
+ low power: 10 US/6 Can/2 Mex.			
1020			
KGBS	Los Angeles, Calif.	50	L3
WCIL	Carbondale, Ill.	1	D1
WPEO	Peoria, Ill.	1	D1
KSWS	Roswell, N.M.	50/10	U4
KDKA	Pittsburgh, Pa.	50	U1
XEXL	Patzcuaro, Mich.	1	D1
1030			
WBZ	Boston, Mass.	50	U3
KCTA	Corpus Christi, Tex.	50	D1
KTWO	Casper, Wyo.	10	U4
XEQR	Mexico, D.F.	10	U1
XELJ	Lagos, Jal.	0.25	D1
1040			
WHO	Des Moines, Iowa	50	U1
KIXL	Dallas, Tex.	1	D1
1050			
WRFS	Alexander City, Ala.	1	D1
KMYO	Little Rock, Ark.	1	D1
KOFY	San Mateo, Calif.	1	D1
KWSO	Wascox, Calif.	1	D1
WJSB	Crestview, Fla.	1	D1
WIVY	Jacksonville, Fla.	1	D1
WAUG	Austusta, Ga.	5	D1
WDZ	Decatur, Ill.	1	D1
KUPK	Garden City, Kans.	5	D3
WQMR	Silver Spring, Md.	1	D1
WPAG	Ann Arbor, Mich.	5	D1
KLOH	Pipestone, Minn.	1	D3
WACR	Columbus, Miss.	1	D1
KMIS	Portageville, Mo.	1	D1
KSIS	Sedalia, Mo.	1	D1
WBNC	Conway, N.H.	1	D1
*WSCV	Peterborough, N.H.	1	D1
WYBG	Massena, N.Y.	1	D1
WHN	New York, N.Y.	50	U3
WFSC	Franklin, N.C.	1	D1
WLON	Lincolnton, N.C.	1	D1
WWGP	Sanford, N.C.	1	D1
WZIP	Cincinnati, O.	1	D1
KFMJ	Tulsa, Okla.	1	D1
KORE	Springfield-Eugene, Ore.	1	D1
WLYC	Williamsport, Pa.	1	D1
WCGB	Pastillo, P.R.	1	D1
WSMT	Sparta, Tenn.	1	D1
WGAT	Gate City, Va.	1	D1
WBRG	Lynchburg, Va.	1	D1
WCMS	Norfolk, Va.	5	D3
KBLE	Seattle, Wash.	5	D1
WCEF	Parkersburg, W. Va.	5	D1
WOKL	Eau Claire, Wis.	1	D1
WKAU	Kaukauna, Wis.	1	D3
CFGP	Grand Prairie, Alta.	10	U3
CKSB	Ste. Boniface, Man.	10	U2
CJIC	Sault Ste. Marie, Ont.	10/2.5	U2
CHUM	Toronto, Ont.	50	U4
CJNB	No. Battleford, Sask.	10	U2
XED	Mexicali, B.C.	10/1	U3
XEG	Monterrey, N.L.	100	U1
+ low power: 20 US.			
1060			
KPAY	Chico Calif.	10	U2
KLMO	Longmont Colo.	10	D1
WJKY	Jamestown Ky.	1	D1
WNOE	New Orleans La.	50/5	U4
*WGTR	Natick Mass.	1	D1
WHFB	Benton Harbor Mich.	5	D1
KFIL	Preston Minn.	1	D1
WMAP	Monroe N.C.	1	D1
KNLV	Ord Nebr.	1	D1
WOIO	Canton O.	5	D3
KYW	Philadelphia Pa.	50	U3
WALD	Walterboro S.C.	1	D1
KGFX	Pierre S.D.	10	D3
WPHC	Waverly Tenn.	1	D1
KRSP	Salt Lake City Utah	10	D1
WCIR	Beckley W. Va.	10	D1
CFCN	Calgary Alta.	50	U4
CJRP	Quebec Que.	10	U4

Call	Location	kW	Hrs.
XEDP	Mexico, D.F.	50	U1
+ low power: 8 US.			
1070			
WAPI	Birmingham, Ala.	50/5	U2
KNX	Los Angeles, Calif.	50	U1
WIBC	Indianapolis, Ind.	50/10	U4
KFDI	Wichita, Kans.	10/1	U2
KHMO	Hannibal, Mo.	5/1	U4
†WNCT	Greenville, N.C.	10	U4
WHPE	High Point, N.C.	1	D1
WKOK	Sunbury, Pa.	10/1	U4
WHYZ	Greenville, S.C.	50	D3
WFLI	Lookout Mountain, Tenn.	50/1	U4
WDIA	Memphis, Tenn.	50/5	U4
KOPY	Alice, Tex.	1	U2
KENR	Houston, Tex.	5	D3
WINA	Charlottesville, Va.	5	U2
WKOW	Madison, Wis.	10/5	U4
CFAX	Victoria, B.C.	1	U3
CBA	Sackville, N.B.	50	U1
CHOK	Sarnia, Ont.	10	U4
XEIT	Carmen, Cam.	1	U1
XESP	Guadalajara, Jal.	5	U2
XEGY	Tehuacan, Pue.	1/0.25	U1
+ low power: 3 US/2 Can.			
1080			
WKAC	Athens, Ala.	1	D1
KSCO	Santa Cruz, Calif.	10/0.5	U2
WTIC	Hartford, Conn.	50	U2
WVCG	Coral Gables, Fla.	10/0.5	U4
WFIV	Kissimee, Fla.	5	D1
WJOE	Port St. Joe, Florida	1	D1
WBIE	Marietta, Ga.	10	D3
WPOK	Pontiac, Ill.	1	D3
WKLO	Louisville, Ky.	5/1	U4
WOAP	Owosso, Mich.	1	D1
KYMN	Northfield, Minn.	1	D1
WUFO	Amherst, N.Y.	1	D1
WEWO	Laurinburg, N.C.	5	D1
WKGX	Lenoir, N.C.	1	D1
*WWDR	Murfreesboro, N.C.	1	
KNDK	Langdon, N.D.	1	D1
KWJJ	Portland, Ore.	50/10	U3
WEEP	Pittsburgh, Pa.	1	D1
KRLD	Dallas, Tex.	50	U2
WKBY	Chatham, Va.	1	D1
CKSA	Lloydminster Alta.	10	U3
+ low power: 6 US/3 Can/3 Mex.			
1090			
KAAY	Little Rock, Ark.	50	U2
KNCR	Fortuna, Calif.	1	D1
WQIK	Jacksonville, Fla.	50	D5
WWSD	Monticello, Fla.	1	D1
WCRA	Effingham, Ill.	1	D1
*WFWR	Fort Wayne, Ind.	1	D3
KNWS	Waterloo, Iowa	1	D1
WBAL	Baltimore, Md.	50	U2
WILD	Boston, Mass.	1	D1
WMUS	Muskegon, Mich.	1	D1
WKTE	King, N.C.	1	D1
WBZB	Selma, N.C.	1	D1
WMWM	Wilmington, O.	1	D3
WENR	Englewood, Tenn.	1	D1
*	Humboldt, Tenn.	5	D1
WGOC	Kingsport, Tenn.	1	D1
KANN	Ogden, Utah	1	D1
KING	Seattle, Wash.	50	U4
CHEC	Lethbridge, Alta.	5	U4
CHRS	St. Jean, Que.	10	D1
XERB	Rosarito, B.C.	50	U2
XEWL	Nuevo Laredo, Tams.	1	D1
XEOD	Veracruz, Ver.	1	U2
+ low power: 11 US/5 Can/2 Mex.			
1100			
KFAX	San Francisco, Calif.	50/1	L5
†KREX	Grand Junction, Colo.	50/10	U6
WLBB	Carrollton, Ga.	1	D1
WHLI	Hempstead, N.Y.	10	D3
WKYC	Cleveland, O.	50	U3
1110			
WBCA	Bay Minette, Ala.	10	D4
WBIB	Centreville, Ala.	1	D1
KRLA	Pasadena, Calif.	50/10	U4
WALT	Tampa, Fla.	10	D3
WMBI	Chicago, Ill.	5	L1
WKDZ	Cadiz, Ky.	1	D1
WFCG	Franklinton, La.	1	D1
WJML	Petoskey, Mich.	10	D3
WKRA	Holly Springs, Miss.	1	D1
KFAB	Omaha, Nebr.	50	U2
WBT	Charlotte, N.C.	50	U2
WSFW	Seneca Falls, N.Y.	1	D1
KEOR	Atoka, Okla.	5	D3
KBND	Bend, Ore.	5/1	U4
WJSM	Martinsburg, Pa.	1	D1
WHIM	Providence, R.I.	1	D1
KDRY	Alamo Heights, Tex.	1	D1
CHQT	Edmonton, Alta.	10	U2
CBD	St. John, N.B.	10	U4
CFML	Cornwall, Ont.	1	D3
+ low power: 6 US/4 Can/2 Mex.			
1120			
KMOX	St. Louis, Mo.	50	U1
WWOL	Buffalo, N.Y.	1	D1
WUST	Washington, D.C.	1	D1
KPNW	Eugene, Ore.	50	U3
XERCN	Mexico, D.F.	50	U2
XELEO	Leon, Gto.	1	U4
XEOQ	Rio Bravo, Tams.	1	D1
XEVNO	Guadalajara, Jal.	1	D1
XETR	Cd. Valles, S.L.P.	1	D1
+ low power: 2 US.			
1130			
KRDU	Dinuba, Calif.	1	U3
KSDO	San Diego, Calif.	5/1	U4
WPUL*	Bartow, Fla.	1	D1
WNRJ	Gainesville, Ga.	10	D1
†WMGA	Moultrie, Ga.	10/0.25	U6
KWKH	Shreveport, La.	50	U2
WCAR	Detroit, Mich.	50/10	U4
WDGY	Minneapolis, Minn.	50/25	U4
†WPYB	Benson, N.C.	1	D1
WNEW	New York, N.Y.	50	U2
WASP	Bronwsville, Pa.	5	D6
*	Edna, Tex.	10	D3
KBGH	Memphis, Tex.	1	D3
WISN	Milwaukee, Wis.	50/10	U4
CKWX	Vancouver, B.C.	50	U2
XEZL	Xalapa, Ver.	10	U2
+ low power: 4 US/1 Mex.			
1140			
KRAK	Sacramento, Calif.	50	U3
KNAB	Burlington, Colo.	1	D1
WQBA	Miami, Fla.	10/5	U4
KGEM	Boise, Ida.	10	U3
WSIV	Pekin, Ill.	5	D1
KPWB	Piedmont, Mo.	1	D1
KLUC	Las Vegas, Nev.	10	D
KLPR	Oklahoma City, Okla.	1	D1
WBZY	New Castle, Pa.	5	D3
WITA	San Juan, P.R.	10	U3
KSOO	Sioux Falls, S.D.	10/5	U2
WRVA	Richmond, Va.	50	U3
CKXL	Calgary, Alta.	10	U2
CBI	Sydney, N.S.	10	U2
XEXF	Leon, Gto.	5	D1
XEMR	Monterrey, N.L.	1/0.35	U1
+ low power: 8 US/5 Can/1 Mex.			
1150			
WGEA	Geneva, Ala.	1	D1
WJRD	Tuscaloosa, Ala.	5/1	U2
KCKY	Coolidge, Ariz.	1	U2
KXLR	No. Little Rock, Ark.	5/1	U2
KRKD	Los Angeles, Calif.	5/1	U1
KPLS	Santa Rosa, Calif.	5/0.5	U4
KGMC	Englewood, Colo.	1	D1
WCNX	Middletown, Conn.	1	D1
WDEL	Wilmington, Del.	5	U4
WNDB	Daytona Beach, Fla.	1	U2
WTMP	Tampa, Fla.	5	D3
WFPM	Fort Valley, Ga.	1	D1
WJEM	Valdosta, Ga.	1	D1
WGGH	Marion, Ill.	5	D3
KWKY	Des Moines, Iowa	1	U4
KSAL	Salina, Kans.	5	U2
WLOC	Munfordville, Ky.	1	D1
WJBO	Baton Rouge, La.	5	U3
WGHM	Skowhegan, Me.	5	D1
WHMC	Gaithersburg, Md.	1/0.5	U4
WCOP	Boston, Mass.	5	U4
WCEN	Mt. Pleasant, Mich.	1/0.5	U2
KASM	Albany, Minn.	1	D1
KRMS	Osage Bch., Mo.	1	D1
KSEN	Shelby, Mont.	5	U4
KDEF	Albuquerque, N.M.	5/0.5	U2
WRUN	Utica, N.Y.	5/1	U4
WBAG	Burlington-Graham	1	D1
WGBR	Goldsboro, N.C.	5/1	U4
WCUE	Cuyahoga Falls, O.	1/0.5	U4
WIMA	Lima, O.	1	U2
KNED	McAlester, Okla.	1/0.5	U2
KAGO	Klamath Falls, Ore.	5/1	U2
KKEY	Portland, Ore.	5	D3
WHUN	Huntingdon, Pa.	5	D1
WYNS	Lehighton, Pa.	1	D3
WKPA	New Kensington, Pa.	1	D3
WDIX	Orangeburg, S.C.	5/0.5	U4
WTYC	Rock Hill, S.C.	1	D1
WSNW	Seneca, S.C.	1	D1
KIMM	Rapid City, S.D.	5	D1
WGOW	Chattanooga, Tenn.	5/1	U2
WCRK	Morristown, Tenn.	1/0.5	U2
WTAW	College Station, Tex.	1	D1
KCCT	Corpus Christi, Tex.	1	D3
KIZZ	El Paso, Tex.	1	D1
KVIL	Highland Pk., Tex.	1	D3
KJBC	Midland, Tex.	1	D1
KBER	San Antonio, Tex.	1	D3
WABH	Deerfield, Va.	1	D1
KPUL	Pullman, Wash.	1	D1
KAYO	Seattle, Wash.	5/1	U1
WELC	Welch, W. Va.	1	D1
WAXX	Chippewa Falls, Wis.	5	D1
CKX	Brandon, Man.	10/1	U1
CHSJ	St. John, N.B.	10/5	U4
CKOC	Hamilton, Ont.	10	U4
CJRC	Ottawa, Ont.	10/5	U4
CJTR	Three Rivers, Que.	10/1	U4
XERM	Mexicali, B.C.	1	U2
XEBF	San Padres, Coah.	1	U1
XEJS	Parral, Chih.	1	U1
XEJP	Mexico, D.F.	10	U2
XEAD	Guadalajara, Jal.	1	U1
XERTM	Macuspana, Tab.	1	U1
XEXZ	Zacatecas, Zac.	1/0.2	U1
+ low power: 5 US/2 Can/2 Mex.			
1160			
WJJD	Chicago, Ill.	50	L3
KSL	Salt Lake City, Utah.	50	U1
XEVW	Acambaro, Gto.	1	D1
XEIW	Uruapan, Mich.	1	D1
1170			
WCOV	Montgomery, Ala.	10/1	U4
KJNP	North Pole, Alaska	10/5	U1
KCBO	San Diego, Calif.	50/5	U4
KLOK	San José, Calif.	50/5	U4
KUAD	Windsor, Colo.	1	D1
KSTT	Davenport, Iowa.	1	U4
*	Orleans, Mass.	1	D3

Call	Location	kW	Hrs.
WWLE*	Cornwall, N.Y.	1	D3
KVOO	Tulsa, Okla.	50	U2
KPUG	Bellingham, Wash.	5/1	U4
WWVA	Wheeling, W. Va.	50	U2
WLKE	Waupon, Wis.	1	D1
*	Chatboro, Ont.	5	D1
CFNS	Saskatoon, Sask.	1	U3
XERT	Reynosa, Tams.	5/0.25	U1
+ low power: 3 US/6 Can/1 Mex.			
1180			
"VOA"	Marathon Key, Fla.	50	U1
WLDS	Jacksonville, Ill.	1	D1
KOFI	Kalispell, Mont.	10	U2
WHAM	Rochester, N.Y.	50	U1
XEFR	Mexico, D.F.	1	U1
1190			
*WAYD	Ozark, Ala.	1	D1
KEZY	Anaheim, Calif.	5/1	U2
WAVS*	Ft. Lauderdale, Fla.	5	D1
WGKA	Atlanta, Ga.	1	D1
WOWO	Ft. Wayne, Ind.	50	U2
WANN	Annapolis, Md.	10	D3
WKOX	Framingham, Mass.	1	D1
KHAD	DeSoto, Mo.	1	D3
*KPAR	Albuquerque, N.M.	1	D1
WLIB	New York, N.Y.	10	L3
KEX	Portland, Ore.	50	U3
WBMJ	San Juan, P.R.	10/5	U3
KLIF	Dallas, Tex.	50/1	U4
†CFSL	Weyburn, Sask.	10/5	U2
XEMBC	Mexicali, B.C.	1	D1
XEPZ	Cd. Juarez, Chih.	1	D1
XEWK	Guadalajara, Jal.	5	U1
XEDO	Jojutla, Mor.	1	D1
XETKR	Monterrey, N.L.	1	D1
+ low power: 5 US/2 Can/2 Mex.			
1200			
WOAI	San Antonio, Tex.	50	U1
XEZI	Zacapu, Mich.	1	D1
+ low power: 1 US/1 Can/1 Mex.			
1210			
WILY	Centralia, Ill.	1	D1
WKNX	Saginaw, Mich.	10	D3
WADE	Wadesboro, N.C.	1	D1
KGYN	Guymon, Okla.	10	U2
WCAU	Philadelphia, Pa.	50	U1
WHOY	Salinas, P.R.	1	D1
	Greenland	0.25	U1
1220			
WAQY	Birmingham, Ala.	1	D1
WABF	Fairhope, Ala.	1	D3
KVSA	McGehee, Ark.	1	D1
KIBE	Palo Alto, Calif.	5	D1
KFSC	Denver, Colo.	1	D1
WCBQ	Hamden, Conn.	1	D3
WDCJ	Arlington, Fla.	1	D1
WACY	Kissimee, Fla.	1	D1
WSAF	Sarasota, Fla.	1	D3
WCLB	Camilla, Ga.	1	D1
WLPO	LaSalle, Ill.	1	D3
WKRS	Waukegan, Ill.	1	D3
WSLM	Salem, Ind.	5	D3
WSME	Sanford, Me.	1	D1
WAVN	Stillwater, Minn.	5	D1
KBHM	Branso, Mo.	1	D1
KLPW	Union, Mo.	1	D1
WKBK	Keene, N.H.	1	D1
WGNY	Newburgh, N.Y.	5	D3
WSOQ	No. Syracuse, N.Y.	1	D1
WKMT	Kings Mtn., N.C.	1	D1
WREV	Reidsville, N.C.	1	D1
WENC	Whiteville, N.C.	5	D1
KEYD	Oakes, N.D.	1	D1
WGAR	Cleveland, O.	50	U3
KAPT	Salem, Ore.	1	D1
WJUN	Mexico, Pa.	1	D1
WRIB	Providence, R.I.	1	D1
WCPH	Etowah, Tenn.	1	D1
WLSD	Big Stone Gap, Va.	1	D1
WFAX	Falls Church, Va.	5	D1
CJOC	Lethbridge, Alta.	10/5	U2
CKDA	Victoria, B.C.	25	U3
*	Brandon, Man.	1	U4
CKCW	Moncton, N.B.	10	U2
CJSS	Cornwall, Ont.	1	U4
CJRL	Kenora, Ont.	1	U1
CHSC	Ste. Catherines, Ont.	1/0.5	U3
CKSM	Shawinigan Falls, Que.	1	U3
XEB	Mexico, D.F.	100	U1
+ low power: 19 US.			
1230			
WAUD	Auburn, Ala.	1/0.25	U1
WNUZ	Talladega, Ala.	1/0.25	U1
WJBB	Haleyville, Ala..	1/0.25	U1
WBHP	Huntsville, Ala.	1/0.25	U1
WTBC	Tuscaloosa, Ala.	1/0.25	U1
KAAA	Kingman, Ariz.	1/0.25	U1
KRIZ	Phoenix, Ariz.	1/0.25	U1
KINO	Winslow, Ariz.	1/0.25	U1
KCON	Conway, Ark.	1/0.25	U1
KFPW	Ft. Smith, Ark.	1/0.25	U1
KBTM	Jonesboro, Ark.	1/0.25	U1
KGEE	Bakersfield, Calif.	1/0.25	U1
KWTC	Barstow, Calif.	1/0.25	U1
KIBS	Bishop, Calif.	1/0.25	U1
KGFJ	Los Angeles, Calif.	1/0.25	U1
KPRL	Paso Robles, Calif.	1/0.25	U1
KWG	Stockton, Calif.	1/0.25	U1
KEXO	Grand Junction, Colo.	1/0.25	U1
KDZA	Pueblo, Colo.	1/0.25	U1
KGEK	Sterling, Colo.	1/0.25	U1
WINF	Manchester, Conn.	1/0.25	U1
WGGG	Gainesville, Fla.	1/0.25	U1
WONN	Lakeland, Fla.	1/0.25	U1
WMAF	Madison, Fla.	1/0.25	SH1
WSBB	New Smyrna Bch., Fla.	1/0.25	U1
WNVY	Pensacola, Fla.	1/0.25	U1
WCNH	Quincy, Fla.	1/0.25	U1
WBIA	Augusta, Ga.	1/0.25	U1
WBLJ	Dalton, Ga.	1/0.25	U1
WXLI	Dublin, Ga.	1/0.25	U1
WFOM	Marietta, Ga.	1/0.25	U1
WSOK	Savannah, Ga.	1/0.25	U1
WAYX	Waycross, Ga.	1/0.25	U1
KBAR	Burley, Ida.	1/0.25	SH1
KORT	Grangeville, Ida.	1/0.25	U1
KRXK	Resburg, Ida.	1/0.25	U1
WJBC	Bloomington, Ill.	1/0.25	U1
WQUA	Moline, Ill.	1/0.25	U1
WJOB	Hammond, Ind.	1/0.25	U1
WSAL	Logansport, Ind.	1/0.25	U1
WTCJ	Tell City, Ind.	1/0.25	U1
WBOW	Terre Haute, Ind.	1/0.25	U1
KFJB	Marshalltown, Iowa	1/0.25	U1
WHIR	Danville, Ky.	1/0.25	U1
WHOP	Hopkinsville, Ky.	1/0.25	U1
WANO	Pineville, Ky.	1/0.25	U1
KLIC	Monroe, La.	1/0.25	U1
WBOK	New Orleans, La.	1/0.25	U1
KSLO	Opelousas, La.	1/0.25	U1
WQDY	Calais, Me.	1/0.25	U1
WSJR	Madawaska, Me.	1/0.25	U1
WITH	Baltimore, Md.	1/0.25	U1
WCUM	Cumberland, Md.	1/0.25	U1
WMNB	No. Adams, Mass.	1/0.25	U1
WESX	Salem, Mass.	1/0.25	U1
WNEB	Worcester, Mass.	1/0.25	U1
WJEF	Grand Rapids, Mich.	1/0.25	U1
WIKB	Iron River, Mich.	1/0.25	U1
WSOO	Sault Ste. Marie Mich.	1/0.25	U
WSTR	Sturgis, Mich.	1/0.25	U1
WKLK	Cloquet, Minn.	1/0.25	U1
KYSM	Mankato, Minn.	1/0.25	U1
KMRS	Morris, Min.	1/0.25	U1
KTRF	Thief River Falls, Minn.	1/0.25	U
KGHS	Intern Falls, Minn.	1/0.25	U1
KWNO	Winona, Minn.	1/0.25	U1
WCMA	Corinth, Miss.	1/0.25	U1
WHSY	Hattiesburg, Miss.	1/0.25	U1
WSSO	Starkville, Miss.	1/0.25	U1
WAZF	Yazoo Cy., Miss.	1/0.25	U1
KODE	Joplin, Mo.	1/0.25	U1
KLWT	Lebanon, Mo.	1/0.25	U1
KWIX	Moberly, Mo.	1/0.25	U1
KBMN	Bozeman, Mont.	1/0.25	U1
KHDN	Hardin, Mont.	1/0.25	SH1
KXLO	Lewiston, Mont.	1/0.25	U1
KLCB	Libby, Mont.	1/0.25	U1
KHAS	Hastings, Nebr.	1/0.25	U1
KCBN	Reno, Nev.	1/0.25	U1
WMOU	Berlin, N.H.	1/0.25	U1
WTSV	Claremont, N.H.	1/0.25	U1
WCMC	Wildwood, N.J.	1/0.25	U1
KALG	Almogordo, N.M.	1/0.25	U1
KYVA	Gallup, N.M.	1/0.25	U1
KFUN	Las Vegas, N.M.	1/0.25	U1
KRSY	Roswell, N.M.	1/0.25	U1
WENY	Elmira, N.Y.	1/0.25	U1
WIGS	Gouverneur, N.Y.	1/0.25	U1
WHUC	Hudson, N.Y.	1/0.25	U1
WLFH	Little Falls, N.Y.	1/0.25	U1
WFAS	White Plains, N.Y.	1/0.25	U1
WSKY	Asheville, N.C.	1/0.25	U1
WFAI	Fayetteville, N.C.	1/0.25	U1
WMFR	High Point, N.C.	1/0.25	U1
WISP	Kinston, N.C.	1/0.25	U1
WNNC	Newton, N.C.	1/0.25	U1
WCBT	Roanoke Rapids, N.C.	1/0.25	U1
KDIX	Dickinson, N.D.	1/0.25	U1
WUBE	Cincinnati, O.	1/0.25	U1
WCOL	Columbus, O.	1/0.25	U1
WIRO	Ironton, O.	1/0.25	U1
WCWA	Toledo, O.	1/0.25	U1
KVAS	Astoria, Ore.	1/0.25	U1
KRNS	Burns, Ore.	1/0.25	SH1
KOOS	Coos Bay, Ore.	1/0.25	U1
KRDR	Gresham, Ore.	1/0.25	U1
KQIK	Lakeview, Ore.	1/0.25	SH1
KYJC	Medford, Ore.	1/0.25	U1
KTDO	Toledo, Ore.	1/0.25	U1
WBVP	Beaver Falls, Pa.	1/0.25	U1
WEEX	Easton, Pa.	1/0.25	U1
WKBO	Harrisburg, Pa.	1/0.25	U1
WCRO	Johnstown, P.	1/0.25	U1
WBPZ	Lock Haven, Pa.	1/0.25	U1
WTIV	Titusville, Pa.	1/0.25	U1
WNIK	Arecibo, P.R.	1/0.25	U1
WERI	Westerly, R.I.	1/0.25	U1
WAIM	Anderson S.C.	1/0.25	U1
WNOK	Columbia, S.C.	1/0.25	U1
WOLS	Florence, S.C.	1/0.25	U1
KISD	Sioux Falls, S.D.	1/0.25	U1
WAKI	McMinnville, Tenn.	1/0.25	U1
KSIX	Corpus Christi, Tex.	1/0.25	U1
KNUZ	Houston, Tex.	1/0.25	U1
KERV	Kerrville, Tex.	1/0.25	U1
KLVT	Levelland, Tex.	1/0.25	U1
KEEE	Nacogdoches, Tex.	1/0.25	U1
KOSA	Odessa, Tex.	1/0.25	U1
KSEY	Seymour, Tex.	1/0.25	SH1
KSST	Sulphur Spgs., Tex.	1/0.25	U1
KWTZ	Waco, Tex.	1/0.25	U1
KMOR	Murray, Utah	1/0.25	U1
KOAL	Price, Utah	1/0.25	U1
WJOY	Burlington, Vt.	1/0.25	U1
WBBI	Abingdon, Va.	1/0.25	U1
WODI	Brookneal, Va.	1/0.25	SH1
WCFV	Clifton Forge, Va.	1/0.25	U1
WFVA	Fredericksburg, Va.	1/0.25	U1
WNOR	Norfolk, Va.	1/0.25	U1
KOZI	Chelan, Wash.	1/0.25	U1
KWYZ	Everett, Wash.	1/0.25	U1
KSPO	Spokane, Wash.	1/0.25	U1
KREW	Sunnyside, Wash.	1/0.25	U1
WLOG	Logan, W. Va.	1/0.25	U1
WTAP	Parkersburg, W. Va.	1/0.25	U1
WHBY	Appleton, Wis.	1/0.25	U1
WCLO	Janesville, Wis.	1/0.25	U1
WXCO	Wausau, Wis.	1/0.25	U1
KVOC	Casper, Wyo.	1/0.25	U1
CKTK	Kitimat, B.C.	1/0.25	U1
*	Merritt, B.C.	1/0.25	U1
*	Castlegar, B.C.	1/0.25	U1

Call	Location	kW	Hrs.
CFBV	Smithers, B.C.	1/0.25	U1
CKMP	Midland, Ont.	1/0.25	U1
CJTT	New Liskeard, Ont.	1/0.25	U1
CFPA	Port Arthur, Ont.	1/0.25	U1
CHVD	Dolbeau, Que.	1/0.25	U1
CJSA	Ste. Agathe des		
CJSA	Montes, Que.	1/0.25	U1
CKLD	Thetford Mines, Que.	1/0.25	U1
+ low power: 26 US/12 Can.			
1235			
ZBMI	Hamilton, Bermuda	1	U1
1240			
WEBJ	Brewton, Ala.	1/0.25	SH1
WPRN	Butler, Ala.	1/0.25	U1
WULA	Eufoula, Ala.	1/0.25	U1
WOWL	Florence, Ala.	1/0.25	U1
WARF	Jasper, Ala.	1/0.25	U1
KCYN	Williams, Ariz.	1/0.25	U1
KTLO	Mtn. Home Ark.	1/0.25	U1
KMBY	Monterrey, Calif.	1/0.25	U1
KRNO	San Bernardino	1/0.25	U1
KROY	Sacramento, Calif.	1/0.25	U1
KSMA	Santa Maria, Calif.	1/0.25	U1
KSUE	Susanville, Calif.	1/0.25	U1
KRDO	Colorado Spgs., Colo.	1/0.25	U1
KDGO	Durango, Colo.	1/0.25	U1
KSLV	Monte Vista, Colo.	1/0.25	U1
WWCO	Waterbury, Conn.	1/0.25	U1
WBGC	Chipley, Fla.	1/0.25	U1
WLCO	Eustis, Fla.	1/0.25	U1
WINK	Ft. Myers, Fla.	1/0.25	U5
WMMB	Melbourne, Fla.	1/0.25	U1
WFOY	St. Augustine, Fla.	1/0.25	U1
WBHB	Fitzgerald, Ga.	1/0.25	U1
WDUN	Gainesville, Ga.	1/0.25	U1
WLAG	LaGrange, Ga.	1/0.25	U1
WBML	Macon, Ga.	1/0.25	U1
WWNS	Statesboro, Ga.	1/0.25	U1
WPAX	Thomasville, Ga.	1/0.25	U1
KVNI	Couer d'Alene, Ida.	1/0.25	U1
WCRW	Chicago, Ill.	1/0.25	ST1
WSBC	Chicago, Ill.	1/0.25	ST1
WEBQ	Harrisburg, Ill.	1/0.25	U1
WTAX	Springfield, Ill.	1/0.25	U1
KWIK	Pocatello, Ida.	1/0.25	U1
WHBU	Anderson, Ind.	1/0.25	U1
KDEC	Decorah, Iowa	1/0.25	ST1
KWLC	Decorah, Iowa	1/0.25	ST1
KBIZ	Ottumwa, Iowa	1/0.25	U1
KICD	Spencer, Iowa	1/0.25	U1
KIUL	Garden, Cy., Kans.	1/0.25	U1
KAKE	Wichita, Kans.	1/0.25	U1
WINN	Louisville, Ky.	1/0.25	U1
WFTM	Maysville, Ky.	1/0.25	U1
WPKE	Pikeville, Ky.	1/0.25	U1
WSFC	Somerset, Ky.	1/0.25	U1
KASO	Minden, La.	1/0.25	U1
KANE	New Iberia, La.	1/0.25	U1
WCOU	Lewiston, Me.	1/0.25	U1
WMKR	Millinocket, Me.	1/0.25	U1
WCEM	Cambridge, Md.	1/0.25	U1
WJEJ	Hagerstown, Md.	1/0.25	U1
WHAI	Greenfield, Mass.	1/0.25	U1
WOCB	W. Yarmouth, Mass.	1/0.25	U1
WATT	Cadillac, Mich.	1/0.25	U1
WCBY	Cheboygan, Mich.	1/0.25	U1
WJPD	Ishpeming, Mich.	1/0.25	U1
WJIM	Lansing, Mich.	1/0.25	U1
WMFG	Hibbing, Minn.	1/0.25	U1
KPRM	Park Rapids, Minn.	1/0.25	U1
WJON	St. Cloud, Minn.	1/0.25	U1
WMPA	Aberdeen, Miss.	1/0.25	U1
WGRM	Greenwood, Miss.	1/0.25	U1
WGCM	Gulfport, Miss.	1/0.25	U1
WMIS	Natchez, Miss.	1/0.25	U1
KFMO	Flat River, Mo.	1/0.25	U1
KWOS	Jefferson Cy., Mo.	1/0.25	U1
KBMY	Billings, Mont.	1/0.25	U1
KLTZ	Glasgow, Mont.	1/0.25	U1
KBLL	Helena, Mont.	1/0.25	U1
KFOR	Lincoln, Nebr.	1/0.25	U1
KODY	No. Platte, Nebr.	1/0.25	U1
KELK	Elko, Nev.	1/0.25	U1
WSNJ	Bridgeton, N.J.	1/0.25	U1
KAVE	Carlsbad, N.M.	1/0.25	U1
KCLV	Clovis, N.M.	1/0.25	U1
WGBB	Freeport, N.Y.	1/0.25	U1
WGVA	Geneva, N.Y.	1/0.25	U1
WVOS	Liberty, N.Y.	1/0.25	U1
WNBZ	Saranac Lake, N.Y.	1/0.25	U1
WSNY	Schenectady, N.Y.	1/0.25	U1
WATN	Watertown, N.Y.	1/0.25	U1
WPNF	Brevard, N.C.	1/0.25	U1
WIST	Charlotte, N.C.	1/0.25	U1
WCNC	Elizabeth Cy, N.C.	1/0.25	U1
WJNC	Jacksonville, N.C.	1/0.25	U1
WRNC	Raleigh, N.C.	1/0.25	U1
WBBW	Youngstown, O.	1/0.25	U1
WHIZ	Zanesville, O.	1/0.25	U1
KVSO	Ardmore, Okla.	1/0.25	U1
KBEL	Idabel, Okla.	1/0.25	U1
KOKL	Okmulgee, Okla.	1/0.25	U1
KFLY	Corvallis, Ore.	1/0.25	U1
KTIX	Pendleton, Ore.	1/0.25	U1
KPRB	Redmond, Ore.	1/0.25	SH1
KQEN	Roseburg, Ore.	1/0.25	U1
WRTA	Altoona, Pa.	1/0.25	U1
WHUM	Reading, Pa.	1/0.25	U1
WBAX	Wilkes-Barre, Pa.	1/0.25	U1
WALO	Humacao, P.R.	1/0.25	U1
WWON	Woonsocket, R.I.	1/0.25	U1
WKDK	Newberry, S.C.	1/0.25	U1
WDXY	Sumter, S.C.	1/0.25	U1
KCCR	Pierre, S.D.	1/0.25	U1
WBEJ	Elizabethtown, Tenn.	1/0.25	U1
WEKR	Fayetteville, Tenn.	1/0.25	U1
WBIR	Knoxville, Tenn.	1/0.25	U1
WKDA	Nashville, Tenn.	1/0.25	U1
WENK	Union Cy., Tenn.	1/0.25	U1
KVLF	Alpine, Tex.	1/0.25	U1
KEAN	Brownwood, Tex.	1/0.25	U1
KORA	Byran, Tex.	1/0.25	U1
KOCA	Kilgore, Tex.	1/0.25	U1
KCKG	Sonora, Tex.	1/0.25	SH1
KXOX	Sweetwater, Tex.	1/0.25	U1
WSKI	Montpelier, Vt.	1/0.25	U1
WSSV	Petersburg, Va.	1/0.25	U1
WROV	Roanoke, Va.	1/0.25	U1
WTON	Staunton, Va.	1/0.25	U1
KXLE	Ellensburg, Wash.	1/0.25	U1
KGY	Olympia, Wash.	1/0.25	U1
WKOY	Bluefield, W. Va.	1/0.25	U1
WTIP	Charleston, W. Va.	1/0.25	U1
WDNE	Elkins, W. Va.	1/0.25	U1
WOMT	Manitowoc, Wis.	1/0.25	U1
WIBU	Poynette, Wis.	1/0.25	U1
WOBT	Rhinelander, Wis.	1/0.25	U1
WJMC	Rice Lake, Wis.	1/0.25	U1
KFBC	Cheyeene, Wyo.	1/0.25	U1
KEVA	Evanston, Wyo.	1/0.25	U1
KASL	Newcastle, Wyo.	1/0.25	U1
KRAL	Rawlins, Wyo.	1/0.25	U1
KTHE	Thermopolis, Wyo.	1/0.25	U1
CFVR	Abbotsford, B.C.	1/0.25	U5
CKOO	Osoyoos, B.C.	1/0.25	U1
CJAV	Port Alberni, B.C.	1/0.25	U1
CJWA	Wawa, Ont.	1/0.25	U1
CJAF	Cabano, Que.	1/0.25	U1
CFLM *	La Tuque, Que. Chibaugamau, Que.	1/0.25	U1
XELM	Tuxtia Gutierrez, Chis.	1	U1
XEBN	Cd. Delicias, Coah.	1	U1
XERZ	Leon, Gto.	1/0.25	U1
XELD	Autlan de Navarro, Jal.	1	U1
XENG	Hauhuachinango, Pue.	1	U1
XEBQ	Guyamas, Son.	1/0.5	U1
XES	Tampico, Tams.	1	U1
XEMQ	Merida, Yuc.	1	U1
+ low power: 24 US/18 Can/7 Mex.			
1250			
WZOB	Ft. Payne, Ala.	1	D1
WETU	Wetumpka, Ala.	5	D1
KHIL	Wilcox, Ariz.	5	D1
KFAY	Fayetteville, Ark.	1	D1
KALO	Little Rock, Ark.	1/0.5	U2
KTMS	Santa Barbara, Calif.	1	U3
KDHI	Twentynine Palms, Calif.	1	D1
KICM	Golden, Colo.	1	D3
WNER	Live Oak, Fla.	1	D1
WDAE	Tampa, Fla.	5	U3
WLYB	Albany, Ga.	1	D1
WYTH	Madison, Ga.	1	D1
WGL	Ft. Wayne, Ind.	1	U4
WRAY	Princeton, Ind.	1	D1
KFKU	Lawrence, Kans.	5	ST2
WREN	Topeka, Kans.	5	ST2
WGUY	Bangor, Me.	5	D1
WARE	Ware, Mass.	1	U2
WXOX	Bay City, Mich.	1	D1
KBRF	Fergus Falls, Minn.	1	U2
KCUE	Red Wing, Minn.	1	D1
WHNY	McComb, Miss.	5/1	U2
KBTC	Houston, Mo.	1	D1
WKBR	Manchester, N.H.	5	U4
WMTR	Morristown, N.J.	5	D3
WIPS	Ticonderoga, N.Y.	1	D1
WKDX	Hamlet, N.C.	1	D1
WBRM	Marion, N.C.	1	D1
WLEM	Emporium, Pa.	1	D1
WPEL	Montrose, Pa.	1	D1
WTAE	Pittsburgh, Pa.	5	U2
WNOW	York, Pa.	1	D1
WTMA	Charleston, S.C.	5/1	U2
WKBL	Covington, Tenn.	1	D1
KPAC	Port Arthur, Tex.	5/1	U2
KUKA	San Antonio, Tex.	1	D1
KIKZ	Seminole, Tex.	1	D1
KVEL	Vernal, Utah	5	D1
WDVA	Danville, Va.	5	U2
WYSR	Franklin, Va.	1	D1
WEER	Warrenton, Va.	1	D1
KWSU	Pullman, Wash.	5	ST1
KTW	Seattle, Wash.	5	ST1
WEMP	Milwaukee, Wis.	5	U3
CHSN	Steinbach, Man.	10	U4
CHWO	Oakville, Ont.	10/5	U4
CBOF	Ottawa, Ont.	10	U3
CKJD	Sarnia, Ont.	1	U4
CKBL	Matane, Que.	10/5	U2
CKOM	Saskatoon, Sask.	10	U2
XESJ	Saltillo, Coah.	1/0.5	U1
XEPI	Tixtla, Gro.	1	U1
XEDK	Guadalajara, Jal	5	U1
XEJX	Queretaro, Qro.	1/0.1	U1
XEDL	Hermosillo, Son.	1/0.5	U1
+ low power: 13 US/3 Mex.			
1260			
WCRT	Birmingham, Ala.	5	D1
KPIN	Casa Grande, Ariz.	1	D1
KCCB	Corning, Ark.	1	D1
KGIL	San Fernando, Calif.	5/1	U4
KYA	San Francisco, Calif.	5/1	U1
KSNO	Aspen, Colo.	5	D1
WMMM	Westport, Conn.	1	D3
WWDC	Washington, D.C.	5	U4
WFTW	Ft. Walton Bch., Fla.	1	D1
WWOK	Miami, Fla.	5	U4
WWPF	Palatka, Fla.	1/0.5	U2
WUFE	Baxley, Ga.	5	D1
WBBK	Blakeley, Ga.	1	D1
WTJH	East Point, Ga.	5	D1
KTEE	Idaho Falls, Ida.	5	D1
KWEI	Weiser, Ida.	1	D1
WIBV	Belleville, Ill.	5	U4
WFBM	Indianapolis, Ind.	5	U2
KFGQ	Boone, Ia.	1	D1
KWHK	Hutchinson, Kan.	1/0.5	U4
WAIL	Baton Rouge, La.	1	D1
WEZE	Boston, Mass.	5	U2
WALM	Albion, Mich.	1/0.5	U2
WJBL	Holland, Mich.	5	D3
KROX	Crookston, Minn.	1/0.5	U2
KDUZ	Hutchinson, Minn.	1	D1

Call	Location	kW	Hrs.
WGVM	Greenville, Miss.	5	D1
WNSL	Laurel, Miss.	5	D1
KGBX	Springfield, Mo.	5	U2
KIMB	Kimball, Nebr.	1	D1
WBUD	Trenton, N.J.	5/1	U4
KVSF	Santa Fe, N.M.	1	U1
WBNR	Beacon, N.Y.	1	D3
WNDR	Syracuse, N.Y.	5	U2
WGWR	Asheboro, N.C.	5/0.5	U4
WCDJ	Edenton, N.C.	1	D1
WIXY	Cevelland, Ohio	5	U4
WNXT	Portsmouth, Ohio	5/1	U4
KWSH	Wewoka, Okla.	1	U2
KMCM	McMinnville, Ore.	1	U2
WWYN	Erie, Pa.	5	U4
WPHB	Philipsburg Pa.	5	D1
WISO	Ponce, P. R.	1	U1
WMUU	Greenville, S. C.	5	D1
WJOT	Lake City, S.C.	1	D1
KWYR	Winner, S. D.	5	D1
WNOO	Chatanooga, Tenn.	1	D1
WMCH	Church Hill, Tenn.	1	D1
WDKN	Dickson, Tenn.	1	D1
WCLC	Jamestown, Tenn.	1	D1
KSPL	Diboll, Tex.	1	D1
KWFR	San Angelo, Tex.	1	D1
KTAE	Taylor, Tex.	1	D1
KTUE	Tulia, Tex.	1	D1
WCHV	Charlottesville,	5/1	U4
WJJJ	Christianburg,Va.	1	D1
KWIQ	Moses Lake, Wash.	1	D1
WVVW	Grafton, W. Va.	0.5	D1
WWIS	Black River Falls	1	D1
WEKZ	Monroe, Wis.	1	D1
WOCO	Oconto, Wis.	1	D1
KPOW	Powell, Wyo.	5/1	U2
CFRN	Edmonton, Alta.	50	U2
XEMF	Monclova, Coah.	1	U1
XEOG	Ojinaga, Chih.	1	D1
XEL	Mexico, D.F.	10/5	U1
XER	Linares, N.L.	1/0.25	U1
+ low power: 4 US/2 Mex.			
1270			
WGSV	Guntersville, Ala.	1	D1
WZAM	Prichard, Ala.	1	D1
KBYR	Anchorage, Alas.	1	U1
KDJI	Holbrook, Ariz.	5	D1
KADL	Pine Bluff, Ark.	5	D1
KCOK	Tulare, Calif.	5/1	U2
WHIY	Orlando, Fla.	5	D1
WTNT	Tallahasee, Fla.	5	U2
WHYD	Columbus, Ga.	5	D1
WJJC	Commerce, Ga.	1	D1
KTFI	Twin Falls, Ida.	5/1	D1
WEIC	Charleston, Ill.	1	D3
WHBF	Rock Island, Ill.	5	U2
WCMR	Elkhart, Ind.	5/0.5	U4
WWCA	Gary, Ind.	1	U3
WORX	Madison, Ind.	1	D3
KSCB	Liberal, Kans.	1/0.5	U2
WAIN	Columbia, Ky.	1	D1
WFUL	Fulton, Ky.	1	D1
KCVL	Winnfield, La.	1	D1
WUOK	Cumberland, Md.	5/1	U4
WSPR	Springfield, Mass.	5/1	U3
WXYZ	Detroit, Mich.	5	U2
*	Charlevoix, Mich.	5	D1
KWEB	Rochester, Min.	5/1	U4
WVOM	Iuka, Miss.	1	D1
WLSM	Louisville, Miss.	1	D1
KUSN	St. Joseph, Mo.	1	D1
KBUB	Sparks, Nev.	5	D3
WTSN	Dover, N.H.	5	U4
KINN	Alamogordo, N.M.	1	D1
WHLD	Niagra Falls, N.Y.	5	D3
WDLA	Walton, N.Y.	1	D1
WCGC	Belmont, N.C.	1/0.5	U2
WMPM	Smithfield, N.C.	5	D1
KBOM	Mandan, N.D.	1/0.25	U1
WILE	Cambridge, Ohio	1	D1
KAJO	Grants Pass, Ore.	5	D1
WLBR	Lebanon, Pa.	5/1	U4
WBHC	Hampton, S.C.	1	D1
KNWC	Sioux Falls, S.D.	1	U2
WLIK	Newport, Tenn.	5/0.5	U2
KIOX	Bay City, Tex.	1	U2
KHEM	Big Springs, Tex.	1	D1
KEPS	Eagle Pass, Tex.	1	D1
KFJZ	Fort Worth, Tex.	5	U3
WTID	Newport News, Va.	1	D1
WHEO	Stuart, Va.	1	D1
KCVL	Colville, Wash.	1	D1
KBAM	Longview, Wash.	5	D1
WWJC	Superior, Wis.	5	D1
KIML	Gillette, Wyo.	5/1	U2
CHAT	Medicine Hat, Alta.	10	U2
CHWK	Chilliwack, B.C.	10	U2
CJQM	Winnipeg, Man.	10	U2
CJCB	Sydney, N.S.	10	U2
CFGT	St. Joseph d'Alma, Que.	1	U2
XERPL	Leon, Gt.	1/0.15	U1
XEAX	Oaxaca, Oax.	5/0.5	U1
XENX	Mazatlan, Sin.	1	U1
XEGL	Navojoa, Son.	1/0.5	U1
XENY	Nogales, Son.	1	U1
XEMW	San Luis Rio Col.	1	D1
XEPV	Papantla, Ver.	1	U1
+ low power: 7 US/5 Mex.			
1280			
WPID	Piedmont, Ala.	1	D1
WNPT	Tuscaloosa, Ala.	5/0.5	U2
KHEP	Phoenix, Ariz.	1	D1
KNBY	Newport, Ark.	1	D1
KOAG	Arroyo Grande, Calif.	1	U2
KFOX	Long Beach, Calif.	1	U1
KJOY	Stockton, Calif.	1	U2
KTLK	Denver, Colo.	5	U4
WSUX	Seaford, Del.	1	D1
WDSP	De Funiak Spgs., Fla.	5	D1
WIPC	Lake Wales, Fla.	1	D1
WIBB	Macon, Ga.	5	D1
WMRO	Aurora, Ill.	1/0.5	U4
WGBF	Evansville, Ind.	5/1	U2
KCOB	Newton, Iowa	1	D1
KSOK	Arkansas Cy., Kans.	1/0.1	U1
WCPM	Cumberland, Ky.	1	D1
WIXI	Lancaster, Ky	1	D1
WDSU	New Orleans, La.	5	U3
KWCL	Oak Grove, La.	1	D1
WABK	Gardiner, Me.	5	U3
WEIM	Fitchburg, Mass.	5/1	U4
WFYC	Alma, Mich.	1	D1
WWTC	Minneapolis, Minn.	5	U2
KVOX	Moorhead, Minn.	1/0.5	U2
KDKD	Clinton, Mo.	1	DI
KCNI	Broken Bow, Nebr.	1	D1
KTOO	Henderson, Nev.	5	D1
KRZE	Farmington, N.M.	5	D1
WADO	New York, N.Y.	5	U3
WROC	Rochester, N.Y.	5	U2
WSAT	Salisbury, N.C.	1	U2
WYAL	Scotland Neck, N.C.	5	D1
WONW	Defiance, O.	1/0.5	U2
WLMJ	Jackson, O.	1	D1
KLCO	Poteau, Okla	1	D1
KERG	Eugene, Ore.	5/1	U2
WBRX	Berwick, Pa.	1	D1
WHVR	Hanover, Pa.	5/0.5	U4
WKST	New Castle, Pa.	1	U2
WCMN	Arecibo, P.R.	5/1	U1
WANS	Anderson, S.C.	5/1	U2
WJAY	Mullins, S.C.	5	D1
WMCP	Columbia, Tenn.	1	D1
WDNT	Dayton, Tenn.	1	D1
KWHI	Brenham, Tex.	1	D1
KLUE	Longview, Tex.	1	D1
KNAK	Salt Lake Cy., Utah	5/0.5	U2
WYVE	Wytheville, Va.	1	D1
KMAS	Shelton, Wash.	1	D1
KUDY	Spokane, Wash.	5	D3
KIT	Yakima, Wash.	5/1	U1
WNAM	Neenah-Menasha, Wis.	5/1	U4
CHQB	Powell River, B.C.	1	U5
CHAM	Hamilton, Ont.	10/5	U4
CJMS	Montreal, Que.	50	U4
CKCV	Quebec, Que.	10/5	U4
CJSL	Esteven, Esteven, Sask.	1	U3
XECAM	Campache, Cam.	1	U1
XEBW	Chihuahua, Chih.	1/0.6	U1
XEQP	Guadalajara, Jal.	1/0.25	U1
XEAW	Monterrey, N.L.	5/0.5	UI
XEZS	Coatzacoalcos, Ver.	1	U1
XEAG	Cordoba, Ver.	1	U1
+ low power: 7 US/3 Mex.			
1290			
WHOD	Jackson, Ala.	1	D1
WSHF	Sheffield, Ala.	1	D1
WMLS	Sylacauga, Ala.	1	D1
KEOS	Flagstaff, Ariz.	1	D1
KCUB	Tucson, Ariz.	1	U1
KDMS	El Dorado, Ark.	5	D1
KUOA	Siloam Spgs, Ark.	5	D1
KHSL	Chico, Calif.	5	U2
KAZA	Gilroy, Calif.	5	D3
KMEN	San Bernardino, Calif.	5	U4
WTUX	Wilmington, Del.	1	D1
WTMC	Ocala, Fla.	5/1	U2
WIRK	W. Palm Bch. Fla.	5/1	U2
WDEC	Americus, Ga.	1	D1
WCHK	Canton, Ga.	1	D1
WTOC	Savannah, Ga.	5	U2
KSNN	Pocatello, Ida.	1	D1
WIRL	Peoria, Ill.	5	U4
KWNS	Pratt, Kans.	5/0.5	U4
WCBL	Benton, Ky.	5	D1
KJEF	Jennings, La.	1	D1
WHGR	Houghton Lake, Mich.	5	U2
WBLE	Batesville, Miss.	1	D1
*WTYL	Tylertown, Miss.		
KALM	Thayer, Mo.	1	D1
KGVO	Missoula, Mont.	5	U3
KOIL	Omaha, Nebr.	5	U2
WKNE	Keene, N.H.	5	U3
KSRC	Socorro, N.M.	1	D1
WGLI	Babylon, N.Y.	5/1	U4
WNBF	Binghamtop, N.Y.	5	U2
WHKY	Hickory, N.C.	5/1	U2
WBBS	Jacksonville, N.C.	1	D1
WEYE	Sanford, N.C.	1	D1
WOMP	Bellaire, O.	1	D1
WHIO	Dayton, O.	5	U2
KUMA	Pendleton, Ore.	5	U2
KLIQ	Portland, Ore.	5	D1
WFBC	Altoona, Pa.	5/1	U4
WICE	Providence, R.I.	5/1	U4
WFIG	Sumter, S.C.	1	U2
WATO	Oak Ridge, Tenn.	5/0.5	U4
KIVY	Crockett, Tex.	1	D1
KBLT	Big Lake, Tex.	1	D1
KRGV	Weslaco, Tex.	5	U2
KTRN	Wichita Falls, Tex.	5/1	U2
WPVA	Colonial Hts.-Petersburg, Va.	5	D1
WAGE	Leesburg, Va.	1	D1
WKWS	Rocky Mount, Va.	1	D1
KAPY	Port Angeles, Wash.	1	D3
WVOW	Logan, W. Va.	5/1	U2
WMIL	Milwaukee, Wis.	1	D1
WCOW	Sparta, Wis.	5	D1
KOWB	Laramie, Wyo.	5/1	U4
CJOE	London, Ont.	10	U3
XEDA	Mexico, D.F.	1	U1
XEIX	Jiquilpan, Mich.	1	D1
XEAP	Cd. Obregon, Son.	1	U1
+ low power: 8 US/2 Mex.			
1300			
WBSA	Boaz, Ala.	1	D1
WTLS	Tallassee, Ala.	1	D1
WEZO	Winfield, Ala.	1	D1
KHAC	Window Rock, Ariz.	1	D1
KWCB	Searcy, Ark.	1	D1
KROP	Brawley, Calif.	1/0.5	U1
KYNO	Fresno, Calif.	5/1	U2
KMFB	Mendocino, Calif.	1	D1
KWKW	Pasadena, Calif.	5/1	U4
KVOR	Colorado Spgs., Colo.	5/1	U1
WAVZ	New Haven, Conn.	1	U2

Call	Location	kW	Hrs.
WRKT	Cocoa Bch., Fla.	5/1	U4
WSOL	Tampa, Fla.	5	D3
WMTM	Moultrie, Ga.	5	D1
WIMO	Winder, Ga.	1	D1
KOZE	Lewiston, Ida.	5/1	U2
WTAQ	La Grange, Ill.	5/0.5	U4
WFRX	W. Frankfort, Ill.	1	D1
KGLO	Mason City, Iowa	5	U2
WBLG	Lexington, Ky.	1	U2
WIBR	Baton Rouge, La.	1	U4
KANB	Shreveport, La.	1	D1
WFBR	Baltimore, Md.	5	U3
WJDA	Quincy, Mass.	1	D1
WOOD	Grand Rapids, Mich.	5	U2
WKPM	Princeton, Minn.	1	D1
WRBC	Jackson, Miss.	5/1	U1
KMMO	Marshall, Mo.	1	D1
KBRL	McCook, Nebr.	5	D3
KRWL	Carson City, Nev.	5/0.5	U2
WPNH	Plymouth, N.H.	1	D1
WAAT	Trenton, N.J.	5	D3
WOSC	Fulton, N.Y.	1	D1
WMMJ	Lancaster, N.Y.	1	D3
WEEE	Rensselaer, N.Y.	5	D3
WGOL	Goldboro, N.C.	1	D1
WSYD	Mt. Airy, N.C.	5/1	U2
WERE	Cleveland, O.	5	U3
KOME	Tulsa, Okla.	5/1	U4
KACI	The Dalles, Ore.	1	D1
WHZN	Hazleton, Pa.	1	D3
WTIL	Mayaguez, P.R.	1	U1
WCKI	Greer, S.C.	1	D1
KOLY	Mobridge, S.D.	5	D1
WMTN	Morristown, Tenn.	5	D3
WMAK	Nashville, Tenn.	5	U2
KVET	Austin, Tex.	5/1	U4
KKUB	Brownfield, Tex.	1	D1
KGNS	Laredo, Tex.	1	D1
WKCY	Harrisonburg, Va.	5	D1
KOL	Seattle, Wash.	5	U2
WCLG	Morgantown, W. Va.	1	D1
WKLC	St. Albans, W. Va.	1	D1
WLOT	Marienette, Wisc.	1	D1
CBAF	Moncton, N.B.	5	U3
CJME	Regina, Sask.	1	U3
XEP	Cd. Juarez, Chih.	1/0.5	U1
XESW	Cd. Madero, Chih.	1	D1
XEKW	Morelia, Mich.	1	U1
XEJL	Guamuchil, Sin.	1	U1
XEXW	Nogales, Son.	1/0.1	U1
XELE	Tampico, Tams.	1	U1
XEHU	Martinez de la Torre, Ver.	1	U1
+ low power: 13 US.			
1310			
WHEP	Foley, Ala.	1	D1
WJAM	Marion, Ala.	5	D1
KBUZ	Mesa, Ariz.	5/0.5	U2
KBOK	Malvern, Ark.	1	D1
KIOT	Barstow, Calif.	5	D3
KPOD	Crescent Cy., Calif.	1	D1
KDIA	Oakland, Calif.	5	U3
KTKR	Taft, Calif.	1	D1
KFKA	Greeley, Colo.	5/1	U2
WICH	Norwich, Conn.	5/1	U4
WOOO	DeLand, Fla.	5	D1
WGKR	Perry, Fla.	1	D1
WOKA	Douglas, Ga.	1	D1
WBRO	Waynesboro, Ga.	1	D1
WBMK	West Point, Ga.	1	D1
KLIX	Twin Falls, Ida.	5/1	U2
WIFE	Indianapolis, Ind.	5/1	U2
KOKX	Keokuk, Iowa	1/0.5	U2
WTTL	Madisonville, Ky.	1/0.5	U2
WDOC	Prestonburg, Ky.	5	D1
KUZN	W. Monroe, La.	1	D1
WLOB	Portland, Me.	5	U4
WORC	Worcester, Mass.	5/1	U4
WKNR	Dearborn, Mich.	5	U4
WCOW	Traverse City, Mich.	5	D1
KRBI	St. Peter, Minn.	1	D3
WXXX	Hattiesburg, Miss.	1	D1
KSFB	Joplin, Mo.	5/1	U4
KFBB	Great Falls, Mont.	5	U2
WJLK	Asbury Park, N.J.	1/0.25	U5
WCAM	Camden, N.J.	1/0.25	U1
WVIP	Mt. Kisco, N.Y.	5	D3
WTLB	Utica, N.Y.	1/0.5	U2
WISE	Asheville, N.C.	5/1	U2
WKTC	Charlotte, N.C.	1	D1
WTIK	Durham, N.C.	5/1	U4
KNOX	Grand Forks, N.D.	5	U2
WPRJ*	Parsipanny, N.J.	1	D3
WFAH	Alliance, O.	1	D3
KNPT	Newport, Ore.	5/1	U2
WBFD	Bedford, Pa.	5	D1
WGSA	Ephrata, Pa.	5	D3
WNAE	Warren, Pa.	5	D1
WDKD	Kingstree, S.C.	5	D1
WDOD	Chattanooga, Tenn.	5	U2
WDXI	Jackson, Tenn.	5/1	U2
WBNT	Oneida, Tenn.	1	D1
KZIP	Amarillo, Tex.	1	D1
WRR	Dallas, Tex.	5	U2
KOYL	Odessa, Tex.	1	D1
KBUC	San Antonio, Tex.	5	D3
WEEL	Fairfax, Va.	5/0.5	U4
WGH	Newport News, Va.	5	U2
KARY	Prosser, Wash.	1	D1
WIBA	Madison, Wis.	5	U2
*	Westlock, Alta.	5	U2
CKOY	Ottawa, Ont.	50	U4
CFGM	Richmond Hill, Ont.	10/2.5	U3
CHGB	Ste. Anne de la Pocatierre, Que.	5	U2
XERU	Chihuahua, Chih.	1/0.25	U1
XEBP	Torreon, Coah.	10/0.25	U1
XETIA	Guadalajara, Jal.	1	U1
XEIZ	Monterrey, N.L.	1	U1
XEVI	San Juan del Rio, Qro.	1	D1
XEPO	San Luis Potosi, S.L.P.	1/0.25	U1
XEFH	Agua Prieta, Son.	1	D1
XEAM	Matamoros, Tams.	1	D1
XEHV	Veracruz, Ver.	1	U1
+ low power: 6 US/3 Mex.			
1320			
WENN	Birmingham, Ala.	5	D1
WAGF	Dothsn, Ala.	1	U2
KWHN	Ft. Smith, Ark.	5	U2
KRLW	Walnut Ridge, Ark.	1	D1
KLAN	Lemoore, Calif.	1	D3
KCRA	Sacramento, Calif.	5/1	U4
KAVI	Rocky Ford, Colo.	1	D1
WATR	Waterbury, Conn.	5/1	U4
WGMA	Hollywood, Fla.	5	U4
WVOF	Jacksonville, Fla.	5	U2
WHIE	Griffin, Ga.	5	D1
WKAN	Kankakee, Ill.	1/0.5	U2
WBRT	Bardstown, Ky.	1	D1
WNGO	Mayfield, Ky.	1	D1
WICO	Salisbury, Md.	1	D1
WARA	Attleboro, Mass.	1	U4
WILS	Lansing, Mich.	5/1	U4
WDMJ	Marquette, Mich.	1	U2
WRJW	Picayune, Miss.	5	D1
KXLW	Clayton, Mo.	5	D3
KOLT	Scottsbluff, Nebr.	5/1	U2
KRDD	Roswell, N.M.	1	D1
WHHO	Hornell, N.Y.	5	D1
WAGY	Forest City, N.C.	1	D1
WCOG	Greensboro, N.C.	5/1	U3
WKRK	Murphy, N.C.	5	D1
KHRT	Minot, N.D.	1	D1
WHOK	Lancaster, O.	1	D1
KWOE	Clinton, Okla.	1	D1
KATR	Eugene, Ore.	1	D1
WKAP	Allentown, Pa.	5/1	U4
WGET	Gettysburg, Pa.	1/0.5	U4
WJAS	Pittsburgh, Pa.	5	U2
WSCR	Scranton, Pa.	1/0.5	U2
WUNO	Rio Piedras, P.R.	5/1	U1
WOIC	Columbia, S.C.	5/1	U2
KELO	Sioux Falls, S.D.	5	N2
WKIN	Kingsport, Tenn.	5	D1
WMSR	Manchester, Tenn.	5	D1
KVMC	Colorado Cy., Tex.	1	D1
KXYZ	Houston, Tex.	5	U2
KCPX	Salt Lake C., Utah	5	U3
WCVR	Randolph, Vt.	1	D1
WLGM	Lynchburg, Va.	1	D1
WEET	Richmond, Va.	1	D1
KXRO	Aberdeen, Wash.	5/1	U2
KHIT	Walla Walla, Wash.	1	D1
WFHR	Wisconsin Rapids, Wis.	5/0.5	U2
CHOM	Vancouver, B.C.	50	U4
CKEC	New Glasgow, N.S.	5	U2
CKKW	Kitchener-Waterloo, Ont.	1	U4
*	Trenton, Ont.	1/0.5	U4
CJSO	Sorel, Que.	10/5	U4
XEJX	Cd. Jimenez Chih.	1/0.25	U1
XEUI	Comitan, Chis.	1	U1
XEAI	Mexico, D.F.	10/5	U2
XENI	Nueva Italia, Mich.	1	U1
XEUJ	Tuxtepec, Oax.	1/0.1	U1
XERJ	Mazalan, Sin.	5	U1
+ low power: 10 US/1 Can/1 Mex.			
1330			
WROS	Scottsboro, Ala.	1	D1
KLOM	Lompoc, Calif.	1	D3
KFAC	Los Angeles, Calif.	5	U2
KCLM	Redding, Calif.	5	D1
WARN	Ft. Pierce, Fla.	1/0.5	U2
WWAB	Lakeland, Fla.	1	D1
WMEN	Tallahassee, Fla.	5	D1
WEBY	Milton, Fla.	5	D1
WMLT	Dublin, Ga.	5/0.5	U2
WEAW	Evanston, Ill.	5	D3
WRAM	Monmouth, Ill.	1	D3
WRRR	Rockford, Ill.	1	D3
WJPS	Evansville, Ind.	5/1	U2
KWWL	Waterloo, Iowa	5	U4
KFH	Wichita, Kans.	5	U2
WYGO	Corbin, Ky.	5	D3
WMOR	Morehead, Ky.	1	D1
KVOL	Lafayette, La.	5/1	U2
WASA	Havre de Grace, Md.	5	D1
WCRB	Waltham, Mass.	5	U4
WTRX	Flint, Mich.	5/1	U4
WLOL	Minneapolis, Minn.	5	U4
WFTO	Fulton, Miss.	1	D1
WJPR	Greenville, Miss.	1/0.5	U2
WDAL	Meridian, Miss.	1	D1
KUKU	Willow Spgs., Mo.	1	D1
KGAK	Gallup, N.M.	5/1	U2
WEVD	New York, N.Y.	5	ST4
WPOW	New York, N.Y.	5	ST3
WEBO	Owego, N.Y.	1	D1
WHAZ	Troy, N.Y.	1	SH1
WKVO	Havelock, N.C.	1	D1
WHOT	Campbell, O.	1/0.5	U4
WFIN	Findlay, O.	1	D1
KPOJ	Portland, Ore.	5	U3
WRIE	Erie, Pa.	5	U4
WLAT	Conway, S.C.	5/0.5	U2
WFBC	Greenville, S.C.	5/0.5	U2
WAEW	Crossville, Tenn.	1	D1
KINE	Kingsville, Tex.	1	D1
KVKM	Monahans, Tex.	5/1	U2
KZAK	Tyler, Tex.	1	D1
WBTM	Danville, Va.	5/1	U2
WRAA	Luray, Va.	1	D1
WOLD	Marion, Va.	1	D1
WESR	Tasley, Va.	5	D1
KCFA	Spokane, Wash.	5	D1
WETZ	New Martinsville, W. Va.	1	D1

Call	Location	kW	Hrs.
WHBL	Sheboygan, Wis.	5/1	U4
KOVE	Lander, Wyo.	5/1	U2
CKKR	Rosetown, Sask.	10	U3
XEWQ	Monclova, Coah.	1	U1
XEBO	Irapuato, Gto.	1	U2
XERP	Tampico, Tams.	1	U1
XEUZ	Martinez de la Torre, Ver.	1	U1
XEFC	Merida, Yuc.	1	U1
+ low power: 10 US/1 Mex.			
1340			
WKUL	Cullman, Ala.	1/0.25	U1
WJOI	Florenc, Ala.	1/0.25	U1
WAMA	Selma, Ala.	1/0.25	U1
WFEB	Sylacauga, Ala.	1/0.25	U1
KIKO	Miami, Ariz.	1/0.25	U1
*KPGE	Page, Ariz.	1/0.25	U1
KENT	Presscott, Ariz.	1/0.25	U1
KBTA	Batesville, Ark.	1/0.25	U1
KZNG	Hot Springs, Ark.	1/0.25	U1
KBRS	Sprindale, Ark.	1/0.25	U1
KATA	Arcata, Calif.	1/0.25	U1
KMAK	Fresno, Calif.	1/0.25	U1
KAOR	Oroville, Calif.	1/0.25	U1
KATY	San Luis Obispo	1/0.25	U1
KIST	Santa Barbara, Calif.	1/0.25	U1
KOMY	Watsonville, Calif.	1/0.25	U1
KDEN	Denver, Colo.	1/0.25	U1
KVRH	Salida, Colo.	1/0.25	SH1
WNHC	New Haven, Conn.	1/0.25	U1
WOOK	Washington, D.C.	1/0.25	U1
WROD	Daytona Bch Fla.	1/0.25	U1
WDSR	Lake City, Fla.	1/0.25	U1
WTYS	Mariana, Fla.	1/0.25	U1
WSEB	Sebring, Fla.	1/0.25	U1
WFSH	Valparaiso-Niceville, Fla.	1/0.25	U1
WGAU	Athens, Ga.	1/0.25	U1
WIGO	Atlanta, Ga.	1/0.25	U1
WBBO	Augusta, Ga.	1/0.25	U1
WGAA	Cedartown, Ga.	1/0.25	U1
WOKS	Columbus, Ga.	1/0.25	U1
WBBT	Lyons, Ga.	1/0.25	U1
WTIF	Tifton, Ga.	1/0.25	U1
KSKI	Hailey, Ida.	1/0.25	U1
KAIN	Nampa, Ida.	1/0.25	U1
WSOY	Decatur, Ill.	1/0.25	U1
WJPF	Herrin, Ill.	1/0.25	U1
WJOL	Joliet, Ill.	1/0.25	U1
WBIW	Bedrord, Ind.	1/0.25	U1
WTRC	Elkhart, Ind.	1/0.25	U1
WLBC	Muncie, Ind.	1/0.25	U1
KROS	Clinton, Iowa	1/0.25	U1
KCKN	Kansas Cy., Kans.	1/0.25	U1
KSEK	Pittsburg, Kans.	1/0.25	U1
WCMI	Ashland, Ky.	1/0.25	U1
WBGN	Bowling Green, Ky.	1/0.25	U1
WNBS	Murray, Ky.	1/0.25	U1
WEKY	Richmond, Ky.	1/0.25	U1
KRMD	Shreveport, La.	1/0.25	U1
KVOB	Bostrop, La.	1/0.25	U1
WFAU	Augusta, Me.	1/0.25	U1
WHOU	Houlton, Me.	1/0.25	U1
WGAW	Gardner, Mass.	1/0.25	U1
WNBH	New Bedford, Mass.	1/0.25	U1
WBRK	Pittsfield, Mass.	1/0.25	U1
WLEW	Bad Axe, Mich.	1/0.25	U5
WLAV	Grand Rapids, Mich.	1/0.25	U1
WMTE	Manistee, Mich.	1/0.25	U1
WAGN	Menominee, Mich.	1/0.25	U1
WMBN	Petoskey, Mich.	1/0.25	U1
WEXL	Royal Oak, Mich.	1/0.25	U5
KDLM	Brainerd, Minn.	1/0.25	U1
KVBR	Detroit Lakes, Minn.	1/0.25	U1
WEVE	Eveleth, Minn.	1/0.25	U1
KROC	Rochester, Minn.	1/0.25	U1
KWLM	Willmar, Minn.	1/0.25	U1
WJMB	Brookhaven, Miss.	1/0.25	SH1
WKOZ	Kosciusko, Miss.	1/0.25	U1
WAML	Laurel, Miss.	1/0.25	U1
KXEO	Mexico, Mo.	1/0.25	U1
KLID	Poplar Bluff, Mo.	1/0.25	U1
KSMO	Salem, Mo.	1/0.25	U1
KICK	Springfield, Mo.	1/0.25	U1
KCAP	Helena, Mont.	1/0.25	U1
KPRK	Livingstone, Mont.	1/0.25	SH1
KATL	Miles City, Mont.	1/0.25	U1
KGFW	Kearney, Nebr.	1/0.25	U1
KSID	Sidney, Nebr.	1/0.25	U1
KRAM	Las Vegas, Nev.	1/0.25	U1
KBET	Reno, Nev.	1/0.25	U1
WDCR	Hanover, H.H.	1/0.25	U1
WMID	Atlantic City, N.J.	1/0.25	U1
KHAP	Aztec, N.M.	1/0.25	U1
KRRR	Ruidoso, N.M.	1/0.25	U1
KSIL	Silver City, N.M.	1/0.25	U1
KKIT	Taos, N.M.	1/0.25	U1
WMBO	Auburn, N.Y.	1/0.25	U1
WENT	Gloversville, N.Y.	1/0.25	U1
WMSA	Massena, N.Y.	1/0.25	SH1
WALL	Middletown, N.Y.	1/0.25	U1
WIRY	Plattsburg, N.Y.	1/0.25	U1
WOOW	Greenville, N.C.	1/0.25	U1
WJRI	Lenoir, N.C.	1/0.25	U1
WTSB	Lumberton, N.C.	1/0.25	U1
WOXF	Oxford, N.C.	1/0.25	U1
WGNI	Wilmington, N.C.	1/0.25	U1
WAIR	Winston-Salem, N.C.	1/0.25	U1
KGPC	Grafton, N.D.	1/0.25	U1
WNCO	Ashland, O.	1/0.25	U1
WIZE	Springfield, O.	1/0.25	U1
WSTV	Steubenville, O.	1/0.25	U1
KOCY	Oklahoma City, Okla.	1/0.25	U1
KIHR	Hood River, Ore.	1/0.25	U1
KLOO	Corvallis, Ore.	1/0.25	U1
KBBR	North Bend, Ore.	1/0.25	U1
WCVI	Connellsville, Pa.	1/0.25	U1
WKRZ	Oil City, Pa.	1/0.25	ST5
WHAT	Philadelphia, Pa.	1/0.25	U1
WRAW	Reading, Pa.	1/0.25	U1
WTRN	Tyrone, Pa.	1/0.25	U1
WBRE	Wilkes-barre, Pa.	1/0.25	U1
WWPA	Williamsport, Pa.	1/0.25	U1
WOKE	Charleston, S.C.	1/0.25	U1
WRHI	Rock Hill, S.C.	1/0.25	U1
WSSC	Sumte, S.C.	1/0.25	U1
KIJV	Huron, S.D.	1/0.25	U1
KRSD	Rapid City, S.D.	1/0.25	U1
WBAC	Cleveland, Tenn.	1/0.25	U1
WKRM	Columbia, Tenn.	1/0.25	U1
WGRV	Greenville, Tenn.	1/0.25	U1
WKGN	Knoxville, Tenn.	1/0.25	U1
WLOK	Memphis, Tenn.	1/0.25	U1
WCDT	Winchester, Tenn.	1/0.25	U1
KWKC	Abilene, Tex.	1/0.25	U1
KAND	Corsicana, Tex.	1/0.25	U1
KLBK	Lubbock, Tex.	1/0.25	U1
KRBA	Lufkin, Tex.	1/0.25	U1
KPDN	Pampa, Tex.	1/0.25	U1
WTWN	St. Johnsbury, Vt.	1/0.25	U1
WKEY	Covington, Va.	1/0.25	U1
WHAP	Hopewell, Va.	1/0.25	U1
WJMA	Orange, Va.	1/0.25	U1
KSMK	Kennewick, Wash.	1/0.25	U1
KAPA	Raymond, Wash.	1/0.25	SH1
WHAR	Clarksburg, W. Va.	1/0.25	U1
WEPM	Martinsburg, W. Va.	1/0.25	U1
WMON	Montgomery, W. Va.	1/0.25	U1
WOVE	Welch, W. Va.	1/0.25	U1
WLDY	Ladysmith, Wis.	1/0.25	U1
WRIT	Milwaukee, Wis.	1/0.25	U1
KWOR	Worland, Wyo.	1/0.25	U1
*	Wetaskiwin, Alta.	1/0.25	U1
	Grand Forks, B.C.	1/0.25	U1
CKCR	Revelstoke, B.C.	1/0.25	U1
CFGB	Goose Bay, Lab.	1	U1
CFYK	Yellow Knife, N.W.T.	1	U1
CKOX	Woodstock, Ont.	1/0.25	U5
CKFL*	Lac Megantic, Que.	1/0.25	U5
CKGN*	Ste. Anne des Monte	1/0.25	U1
ZBM2	Hamilton, Bermuda	1	U1
XEJK	Cd. Delicias, Chih.	1	U1
XEDKT	Guadalajara, Jal.	1/0.25	U1
XENV	Monterrey, N.L.	1/0.25	U1
XESL	San Luis Potosi	1	U1
XECW	Los Mochis, Sin.	1	U1
XEOM	Coatzacoalcos, Ver.	1/0.25	U1
XEGR	Coatepec, Ver.	1	U1
XEMA	Fresnillo, Zac.	1	U1
+ low power: 33 US/18 Can/9 Mex.			
1350			
WELB	Elba, Ala.	1	D1
WGAD	Gadsden, Ala.	5/1	U2
KLYD	Bakersfield, Calif.	1	D1
KCKC	San Bernardino, Calif.	5/0.5	U4
KSRO	Santa Rosa, Calif.	5	U2
KKAM	Pueblo, Colo.	5/1	U2
WNLK	Norwalk, Conn.	1/0.5	U2
WINY	Putnam, Conn.	1	D1
WEZY	Cocoa, Fla.	1	U2
WDCF	Dade City, Fla.	1	D1
WCAI	Ft. Myers, Fla.	1	D1
WRWH	Cleveland, Ga.	1	D1
WAVC	Warner Robins, Ga.	5	D1
KRLC	Lewiston, Ida.	5/1	U2
WXCL	Peoria, Ill.	1	U4
WIOU	Kokomo, Ind.	5/1	U4
KRNT	Des Moines, Iowa	5	U2
WSMB	New Orleans, La.	5	U2
WLOU	Louisville, Ky.	5	D1
KDIO	Ortonville, Minn.	1	D1
WCMP	Pine City, Minn.	1	D1
WKCU	Corinth, Miss.	1	D1
KCHR	Charleston, Mo.	1	D1
KBRX	O'Neil, Nebr.	1	D1
WLNH	Laconia, N.H.	5	D1
WHWH	Princeton, N.J.	5	U4
KABQ	Albuquerque, N.M.	5/0.5	U2
WCBA	Corning, N.Y.	1	D1
WHIP	Mooresville, N.C.	1	D1
WLLY	Wilson, N.C.	1	D1
WSLR	Akron, O.	5	U3
WCHI	Chillicothe, O.	1	D1
KTLO	Tahlequah, Okla.	1	D1
KRVC	Ashland, Ore.	1	D1
WWBR	Windber, Pa.	1	D1
WORK	York, Pa.	5/1	U2
WDAR	Darlington, S.C.	1	D1
WGSW	Greenwood, S.C.	1	D1
KTXJ	Jasper, Tex.	1	D1
KCOR	San Antonio, Tex.	5	U2
WBLT	Bedford, Va.	1	D1
WFLS	Fredericksburg, Va.	1	D1
WNVA	Norton, Va.	5	D1
WCVU	Portsmouth, Va.	5	U4
WPDR	Portage, Wis.	1	D1
CJDC	Dawson Creek, B.C.	1	U1
†CKAD	Middleton, N.S.	1/0.5	U3
CKEN	Kentville, N.S.	1	U2
CKLB	Oshawa, Ont.	10/5	U4
CHOV	Pembroke, Ont.	1	U3
CJLM	Joliette, Que.	1	U3
†CFOM	Quebec, Que.	1	U3
XETB	Torreon, Coah.	5/0.5	U1
XEQK	Mexico, D.F.	1	U1
XETM	Naco, Son.	1	U1
XEJF	Tierra Blanca, Ver.	1	U1
+ low power: 11 US/2 Can/2 Mex.			
1360			
WWWB	Jasper, Ala.	1	D1
WLIQ	Mobile, Ala.	5	D3
WMFC	Monroeville, Ala.	1	D1
WELR	Roanoke, Ala.	1	D1
KRUX	Glendale, Ariz.	5/0.5	U2
KFFA	Helena, Ark.	1	U2
KFIV	Modesto, Calif.	5/1	U4

Call	Location	kW	Hrs.
KRCK	Ridgecrest, Calif.	1	D1
KGB	San Diego, Calif.	5/1	U1
WDRC	Hartford, Conn.	5	U2
WOBS	Jacksonville, Fla.	5	U2
WKAT	Miami Bch., Fla.	5/1	U1
WINT	Winter Haven, Fla.	1	D1
WAZA	Bainbridge, Ga.	1	D1
WLAW	Lawrenceville, Ga.	1	D1
WLBK	DeKalb, Ill.	1	D1
WGFA	Watseka, Ill.	1	D3
KHAK	Cedar Rapids, Iowa	1	D3
KXGI	Ft. Madison, Iowa	1	D1
KSCJ	Sioux City, Iowa	5	U2
WFLW	Monticello, Ky.	1	D1
KDXI	Mansfield, La.	1	D1
KNIR	New Iberia, La.	1	D1
WFBR	Baltimore, Md.	5	D3
WLYN	Lynn, Mass.	1	D1
WKMI	Kalamazoo, Mich.	5/1	U2
WFFF	Columbia, Miss.	1	D1
KLRS	Mtn. Grove, Mo.	1	D1
KICX	McCook, Nebr.	1	D1
WNNJ	Newton, N.J.	1	D1
WWBZ	Vineland, N.J.	1	U2
WKOP	Binghampton, N.Y.	5/0.5	U4
WMNS	Olean, N.Y.	1	D1
WCHL	Chapel Hill, N.C.	1	D1
KEYZ	Williston, N.D.	5	U2
WSAI	Cincinnati, O.	5	U2
KUIK	Hillsboro, Ore.	1	D1
WIXZ	McKeesport, Pa.	5/1	U2
WPPA	Pottsville, Pa.	5/0.5	U4
WELP	Easley, S.C.	1	D1
WLCM	Lancaster, S.C.	1	D1
WBLC	Lenoir City, Tenn.	1	D1
WNAH	Nashville, Tenn.	1	D1
KACT	Andrews, Tex.	1	D1
KWBA	Baytown, Tex.	1	U4
KRYS	Corpus Christi, Tex.	1	U1
KXOL	Fort Worth, Tex.	5/1	U2
WBOB	Galax, Va.	1	D1
WHBG	Harisonburg, Va.	1	D1
KFDR	Grand Coulee, Wash.	1	D1
KMO	Tacoma, Wash.	5	U1
WHJC	Matewan, W. Va.	1	D1
WMOV	Ravenswood, W. Va.	1	D1
WBAY	Green Bay, Wis.	1	D1
WMNE	Menomonie, Wis.	1	D1
WISV	Viroqua, Wis.	1	D1
KVRS	Rock Springs, Wyo.	1/0.5	U2
CKBC	Bathurst, N.B.	10	U2
*	Bainbridge, Ont.	1	D1
XEDI	Chihuahua Chih	1/0.2	U1
XEY	Celaya, Gto.	1/0.25	U1
XEKF	Iguala, Gro.	1/0.25	U1
XESA	Culiacan, Sin.	1/0.5	U1
XEDO	San Andres Tuxtla	1	U1
+ low power: 10 US/1 Mex.			
1370			
WBYE	Calera, Ala.	1	D1
KREL	Corona, Calif.	1/0.5	U2
KEEN	San José, Calif.	5	U4
KGEN	Tulare, Calif.	1	D1
WWKE	Ocala, Fla.	5	D1
WCOA	Pensacola, Fla.	5	U2
WAXE	Vero Beach, Fla.	1	D1
WLOP	Jesup, Ga.	5	D1
WFDR	Manchester, Ga.	1	D1
WLOV	Washington, Ga.	1	D1
WTTS	Bloomington, Ind.	5/0.5	U4
WLTH	Gary, Ind.	1	D1
KDTH	Dubuque, Iowa	5/1	U2
KGNO	Dodge City, Kans.	5/1	U2
WGOH	Grayson, Ky.	5	D1
WTKY	Thomkinsville, Ky.	1	D1
KAPB	Marksville, La.	1	D1
WDEA	Ellsworth, Me.	5	U2
WKIK	Leonardtown, Md.	1	D1
WWAM	Cadillac, Mich.	5/1	U4
KSUM	Fairmont, Minn.	1	U4
WMGO	Canton, Miss.	1	D1
KWRT	Boonville, Mo.	1	D1
KCRV	Caruthersville, Mo.	1	D1
KXLF	Butte, Mont.	5	U1
WFEA	Manchester, N.H.	5	U3
WASY	Rochester, N.Y.	5	U2
WLTC	Gastonia, N.C.	5	D1
WTAB	Tabor City, N.C.	5	D1
KFJM	Grand Forks, N.D.	1	D1
WSPD	Toledo, O.	5	U2
KAST	Astoria, Ore.	1	U2
KFTR	Sweet Home, Ore.	1	D1
WOTR	Corry, Pa.	1/0.5	U2
WPAZ	Pottstown, Pa.	1	D1
WKMC	Roaring Spring, Pa.	1	D1
WIVV	Viequues, P.R.	1	U1
WDEF	Chattanooga, Tenn.	5	U2
WDXE	Lawrenceburg, Tenn.	1	D1
WRGS	Rogersville, Tenn.	1	D1
KOKE	Austin, Tex.	1	D1
KFRO	Longview, Tex.	1	U2
KPOS	Post, Tex.	1	D1
KSOP	Salt Lake City, Utah	1	D1
WBTN	Bennington, Vt.	1	D1
WHEE	Martinsville, Va.	5	D1
WJWS	South Hill, Va.	5	D1
KPOR	Quincy, Wash.	1	D1
WEIF	Moundsville, W. Va.	1	D1
WCCN	Neillsville, Wis.	5	D1
KVWO	Cheyenne, Wyo.	1	D1
CFLV	Valleyfield, Que.	10/5	U4
*	Saskatoon, Sask.	10	U2
XEA	Campeche, Cam.	1	U1
XEPA	Puebla, Pue.	5	U2
XEHF	Nogales, Son.	1	U1
XEGNK	Nuevo Laredo, Tems.	0.25	D1
+ low power: 15 US/2 Can/4 Mex.			
1375			
	St. Pierre, St. Pierre et Miquelon	4	U1
1380			
WRAB	Arab, Ala.	1	D1
WGYV	Greenville, Ala.	1	D1
WVSA	Vernon, Ala.	1	D1
KDXE	Little Rock, Ark.	1	D1
KBVM	Lancaster, Calif.	1	D3
KGMS	Sacramento, Calif.	1	U4
KTOM	Salinas, Calif.	5	U4
KFLJ	Walsenburg, Colo.	1	D1
†WOWW	Naugatuck, Conn.	5/0.5	U4
WAMS	Wilmington, Del.	5/1	U3
WDAT	Ormond Beach, Fla.	1	D1
WLCY	St. Petersburg, Fla.	5	U2
WAOK	Atlanta, Ga.	5	U2
WSIZ	Ocilla, Ga.	5	D1
WBEL	So. Beloit, Ill.	5	U2
WKJG	Ft. Wayne, Ind.	5	U4
KCIM	Carroll, Iowa	1	U4
KUDL	Fairway, Kans.	5/0.5	U4
WWKY	Winchester, Ky.	1	D1
WYNK	Baton Rouge, La.	5	D3
WKTJ	Farmington, W. Farmington, Me.	1	D1
WPLB	Greenville, Mich.	1/0.5	U2
WPHM	Port Huron, Mich.	5	U4
KLIZ	Brainerd, Minn.	5	U2
KAGE	Winona, Minn.	1	D1
KWK	St. Louis, Mo.	5	U2
WBBX	Portsmouth, N.H.	1	U2
WAWZ	Zarapheth, N.J.	5	ST4
WBNX	New York, N.Y.	5	ST3
WLOS	Asheville, N.C.	5/1	U2
WTOB	Winston-Salem, N.C.	5/1	U2
WPKO	Waverley, O.	1	D3
KSWO	Lawton, Okla.	1	U4
KMUS	Muskogee, Okla.	1/0.5	U2
KBCH	Lincoln City, Ore.	1	D1
KSRV	Ontario, Ore.	5/1	U2
WACB	Kittanning, Pa.	1	D1
WMLP	Milton, Pa.	1	D1
WAYZ	Waynesboro, Pa.	1	D1
WNRI	Woonsocket, R.I.	1	D1
WAGS	Bishopville, S.C.	1	D1
WGUS	No. Augusta, S.C.	1	D1
KOTA	Rapid City, S.D.	5	U2
WYSH	Clinton, Tenn.	1	D1
WIZO	Franklin, Tenn.	1	D3
KJET	Beaumont, Tex.	1	D1
KBWD	Brownwood, Tex.	1/0.5	U1
KTSM	El Paso, Tex.	5/0.5	U1
KMUL	Muleshoe, Tex.	1	D1
KBOP	Pleasanton, Tex.	1	D1
WSYB	Rutland, Vt.	5/1	U2
WTVR	Richmond, Va.	5	U2
KRKO	Everett, Wash.	5	U2
KPEG	Spokane, Wash.	5	D1
WMTD	Hinton, W. Va.	1	D1
*	Oromcto, N.B.	10	U3
CKPC	Brantford, Ont.	10	U4
CKLC	Kingston, Ont.	10/5	U4
CFDA	Victoriaville, Que.	1	U2
XECO	Mexico, D.F.	5	U1
XEGW	Cd. Victoria, Tams.	1	U1
+ low power: 10 US/1 Can/2 Mex.			
1390			
WHMA	Anniston, Ala.	5/1	U2
KAMO	Rogers, Ark.	1	D1
KGER	Long Beach, Calif.	5	U2
KCEY	Turlock, Calif.	5	U4
KFML	Denver, Colo.	5	D1
WAVP*	Avon Park, Fla.	1	D1
WUWU	Gainesville, Fla.	5	D1
WISK	Americus, Ga.	5	D1
WNUS	Chicago, Ill.	5	U4
WFIW	Fairfield, Ill.	1	D1
WJCD	Seymour, Ind.	1	D1
KCLN	Clinton, Iowa	1	D3
KCBC	Des Moines, Iowa	1	U3
WANY	Albany, Ky.	1	D1
WKIC	Hazard, Ky.	5	D1
WEGP	Presque Isle, Me.	5	U2
WCAT	Orange, Mass.	1	D1
WPLM	Plymouth, Mass.	5	U4
WCER	Charlotte, Mich.	5	D3
WROA	Gulfport, Miss.	1	D1
WQIC	Meridian, Miss.	5	D1
KJPW	Waynesville, Mo.	1	D1
KENN	Farmington, N.M.	5/1	U2
KHOB	Hobbs, N.M.	5	D1
WEOK	Poughkeepsie, N.Y.	5/1	U4
WRIV	Riverhead, N.Y.	1	D1
WFBL	Syracuse, N.Y.	5	U2
WEED	Rocky Mount, N.C.	5/1	U2
WADA	Shelby, N.C.	1/0.5	U2
KLPM	Minot, N.D.	5/1	U1
WMPO	Pomeroy, O.	5	D1
WFMJ	Youngstown, O.	5	U2
KCRC	Enid, Okla.	1	U3
KSLM	Salem, Ore.	5/1	U1
WLAN	Lancaster, Pa.	5/1	U4
WRSC	State College, Pa.	1	D1
WISA	Isabella, P.R.	1/0.5	U1
WHPB	Belton, S.C.	1	D1
WCSC	Charleston, S.C.	5	U2
WTJS	Jackson, Tenn.	5/1	U2
KBLW	Logan, Utah	1/0.5	U2
WEAM	Arlington, Va.	5	U4
WWOD	Lynchburg, Va.	5/1	U2
KBBO	Yakima, Wash.	1/0.5	U2
WKLP	Keyser, W. Va.	1	D1
CKKC	Nelson, B.C.	1	U3
CHOO	Ajax, Ont.	10	U3
XETY	Tecoman, Col.	5/0.25	U1

Call	Location	kW	Hrs.
XEOR	Reynosa, Tams.	1	U1
XET	Tuxpan, Ver.	5	U1
+low power: 12 US/1 Mex.			
1400			
WMSL	Decatur, Ala.	1/0.25	U1
WXAL	Demopolis, Ala.	1/0.25	U1
WFPA	Fort Payne, Ala.	1/0.25	U1
WJLD	Homewood, Ala.	1/0.25	U1
WTHO	Opelika, Ala.	1/0.25	U1
KSEW	Sitka, Alaska	1/0.25	U1
KXIV	Phoenix,Ariz.	1/0.25	U1
KELD	El Dorado, Ark.	1/0.25	U1
KCLA	Pine Bluff, Ark.	1/0.25	U1
KWYN	Wynne, Ark.	1/0.25	U1
KPAT	Berkeley, Calif.	1/0.25	U1
KTRT	Truckee, Calif.	1/0.25	U1
KUKI	Ukiah, Calif.	1/0.25	U1
KONG	Visalia, Calif.	1/0.25	U1
KRLN	Canon City, Colo.	1/0.25	SH1
KFTM	Fort Morgan, Colo.	1/0.25	U1
KBZZ	La Junta, Colo.	1/0.25	U1
WSTC	Stamford, Conn.	1/0.25	U1
WILI	Willimantic, Conn	1/0.25	U1
WFTL	Ft. Lauderdale, Fla.	1/0.25	U5
WIRA	Fort Pierce, Fla.	1/0.25	U1
WNUE	Ft. Walton, Beach Fla.	1/0.25	U1
WRHC	Jacksonville, Fla.	1/0.25	U1
WPRY	Perry, Fla.	1/0.25	U1
WTRR	Stanford, Fla.	1/0.25	U1
WPAS	Zephyr Hills, Fla.	1/0.25	U1
WULF	Alma, Ga.	1/0.25	SH1
WSGC	Elberton, Ga.	1/0.25	U1
WNEX	Macon, Ga.	1/0.25	U1
WCOH	Newnan, Ga.	1/0.25	U1
WSGA	Savannah, Ga.	1/0.25	U1
KART	Jerome, Ida.	1/0.25	SH1
KRPL	Moscow, Ida.	1/0.25	U1
KIGO	St. Anthony, Ida.	1/0.25	U1
KSPT	Sandpoint, Ida.	1/0.25	U1
WDWS	Champaign, Ill.	1/0.25	U1
WGIL	Galesburg, Ill.	1/0.25	U1
WROZ	Evansville, Ind.	1/0.25	U1
WBAT	Marion, Ind.	1/0.25	U1
KVFD	Fort Dodge, Iowa	1/0.25	U1
KVOE	Emporia, Kans.	1/0.25	U1
KAYS	Hays, Kans.	1/0.25	U1
WIEL	Elizabethtown, Ky	1/0.25	U1
WFTG	London, Ky.	1/0.25	SH1
WFPR	Hammond, La.	1/0.25	U1
KAOK	Lake Charles, La.	1/0.25	U1
WRDO	Augusta, Me.	1/0.25	U1
WIDE	Biddeford, Me.	1/0.25	U1
WMCS	Machias, Me.	1/0.25	U1
WWIN	Baltimore, Md.	1/0.25	U1
WALE	Fall River, Mass.	1/0.25	U1
WLLH	Lawrence, Mass.	1/0.25	U1
WLLH	Lowell, Mass.	1/0.25	U1
WHMP	Northampton, Mass.	1/0.25	U1
WKFR	Battle Creek, Mich.	1/0.25	U1
WJLB	Detroit, Mich.	1/0.25	U1
WGON	Munising, Mich.	1/0.25	U1
WSAM	Saginaw, Mich.	1/0.25	U1
WSJM	St. Joseph, Mich.	1/0.25	U1
WTCM	Traverse City, Mich.	1/0.25	U1
KEYL	Long Prairie, Minn.	1/0.25	U1
KMHL	Marshall, Minn.	1/0.25	U1
WMIN	St. Paul, Minn.	1/0.25	U1
WHLB	Virginia, Minn.	1/0.25	U1
WBIP	Booneville, Miss.	1/0.25	U1
WNAG	Grenada, Miss.	1/0.25	U1
WFOR	Hattiesburg, Miss	1/0.25	U1
WJQS	Jackson, Miss.	1/0.25	U1
KFRU	Columbia, Mo.	1/0.25	U1
KJCF	Festus, Mo.	1/0.25	U1
KSIM	Sikeston, Mo.	1/0.25	U1
KTTS	Springfield, Mo.	1/0.25	U1
KARR	Great Falls, Mont.	1/0.25	U1
KBRB	Ainsworth, Nebr.	1/0.25	U1
KCOW	Alliance, Nebr.	1/0.25	SH1
KLIN	Lincoln, Nebr.	1/0.25	U1
KWNA	Winnemucca, Nev.	1/0.25	SH1
WTSL	Hanover, N.H.	1/0.25	U1
WOND	Pleasantville, N.J.	1/0.25	U1
KTRC	Santa Fe, N.M.	1/0.25	U1
KTNM	Tucumcari, N.M.	1/0.25	U1
WABY	Albany, N.Y.	1/0.25	U1
WYSL	Buffalo, N.Y.	1/0.25	U1
WSLB	Ogdensburg, N.Y.	1/0.25	U1
WGBG	Greensboro, N.C.	1/0.25	U1
WSHB	Raeford, N.C.	1/0.25	U1
WSIC	Statesville, N.C.	1/0.25	U1
WLSE	Wallace, N.C.	1/0.25	U1
WHCC	Waynesville, N.C.	1/0.25	U1
WSMY	Weldon, N.C.	1/0.25	U1
KEYJ	Jamestown, N.D.	1/0.25	U1
WHAN	Mansfield, O.	1/0.25	U1
WPAY	Portsmouth, O.	1/0.25	U1
KWON	Bartlesville, Okla.	1/0.25	U1
KNND	Cottage Grove, Ore.	1/0.25	SH1
KJDY	John Day, Ore.	1/0.25	SH1
WICK	Scranton, Pa.	1/0.25	U1
WEST	Easton, Pa.	1/0.25	U1
WJET	Erie, Pa.	1/0.25	U1
WFEC	Harrisburg, Pa.	1/0.25	U1
WKBI	St. Marys, Pa.	1/0.25	U1
WRAK	Williamsport, Pa.	1/0.25	U1
WCOS	Columbia, S.C.	1/0.25	U1
WGTN	Georgetown, S.C.	1/0.25	U1
WHCQ	Spartanburg, S.C.	1/0.25	U1
KBJM	Lemmon, S.D.	1/0.25	U1
WJZM	Clarksville, Tenn.	1/0.25	U1
WHUB	Cookeville, Tenn.	1/0.25	U1
WLSB	Cooper Hill, Tenn.	1/0.25	U1
WKPT	Kingport, Tenn.	1/0.25	U1
WGAP	Mayville, Tenn.	1/0.25	U1
WHAL	Shelbyville, Tenn.	1/0.25	U1
KRUN	Ballinger, Tex.	1/0.25	SH1
KBYG	Big Spring, Tex.	1/0.25	U1
KUNO	Corpus Christi, Tex.	1/0.25	U1
KGVL	Greenville, Tex.	1/0.25	U1
KEBE	Jacksonville, Tex.	1/0.25	U1
KIUN	Pecos, Tex.	1/0.25	U1
KEYE	Perrytown, Tex.	1/0.25	U1
KVOP	Plainview, Tex.	1/0.25	U1
KDWT	Stamford, Tex.	1/0.25	U1
KTEM	Temple, Tex.	1/0.25	U1
KTFS	Texarkana, Tex.	1/0.25	U1
WDOT	Burlington, Vt.	1/0.25	U1
WHHV	Hillsville, Va.	1/0.25	SH1
WHIH	Portsmouth, Va.	1/0.25	U1
WHLF	So. Boston, Va.	1/0.25	U1
WINC	Winchester, Va.	1/0.25	U1
KEDO	Longview, Wash.	1/0.25	U1
KTNT	Tacoma, Wash.	1/0.25	U1
WBOY	Clarksburg, W. Va	1/0.25	U1
WRON	Ronceverte, W. Va.	1/0.25	U1
WVRC	Spencer, W. Va.	1/0.25	U1
WKWK	Wheelingt, W. Va.	1/0.25	U1
WBTH	Williamson, W. Va	1/0.25	U1
WATW	Ashland, Wis.	1/0.25	U1
WBIZ	Eau Claire, Wis.	1/0.25	U1
WDUZ	Green Bay, Wis.	1/0.25	U1
WRJN	Racine, Wis.	1/0.25	U1
WRDB	Reedsburg, Wis.	1/0.25	U1
WRIG	Wausau, Wis.	1/0.25	U1
KATI	Casper, Wyo.	1/0.25	U1
KODI	Cocy, Wyo.	1/0.25	U1
CJFP	Riviere du Loup, Que.	10/0.25	U1
XEDE	Saltillo, Coah.	1/0.25	U1
CKSW	Swift Current, Sask.	1/0.25	U1
XEVV	Tuxtla Gutierrez	1	U1
XEGD	Parral, Chih.	1	U1
XEKJ	Acapulco, Gro.	1/0.5	U1
XEI	Morelia, Mich.	1/0.25	U1
XELH	Acaponeta, Nay.	1	U1
XEPS	Empalme, Son	1	U1
XEPB	Hermosillo, Son	1	U1
XEAB	Santa Ana, Son.	1	U1
XETO	Tampico, Tams.	1	U1
+low power: 33 US/10 Can/3 Mex.			
1410			
WUNI	Mobile, Ala.	5	U2
WPXC	Prattville, Ala.	5/1	U2
KTCS	Fort Smith, Ark.	1	D1
KERN	Bakersfield, Calif.	1	U1
KMYC	Marysville, Calif.	5/1	U4
KCAL	Redlands, Calif.	5/0.5	U2
KCOL	Ft. Collins, Colo.	1	U2
WPOP	Hartford, Conn.	5	U4
WDOV	Dover, Del.	5	U2
WMYR	Ft. Myers, Fla.	5/0.5	U2
WZST	Leesburg, Fla.	5	D1
WONS	Tallahassee, Fla.	5	D1
WSNE	Cumming, Ga.	1	D3
WGRI	Griffin, Ga.	1	D1
WDAX	McRae, Ga.	1	D1
WLAQ	Rome, Ga.	1	U2
WRMN	Elgin, Ill.	1	D1
WTIM	Taylorville, Ill.	1	D3
WAZY	Lafayette, Ind.	1	D3
KLEM	LeMars, Iowa	1	D1
KCLO	Leavenworth, Kans.	5	D3
KWBB	Wichita, Kans.	5/1	U4
WLBJ	Bowling Green, Ky.	5/1	U2
WHLN	Harlan, Ky.	5	D1
KDBS	Alexandria, La.	1	D1
WHAG	Halfway, Md.	1	D3
WOKW	Brockton, Mass.	1	D3
WGRD	Grand Rapids, Mich.	1	D1
†WIOS	Tawas Cy, Mich.	1	D1
KRWB	Roseau, Minn.	1	U2
WDSK	Cleveland, Miss.	1	D1
KNOP	North Platte, Nebr.	1/0.5	U2
WDOE	Dunkirk, N.Y.	1/0.5	U2
WELM	Elmira, N.Y.	1/0.5	U2
WBZA	Glens Falls, N.Y.	1	D1
WOTT	Watertown, N.Y.	5	D1
WEGO	Concord, N.C.	1	D1
WSRC	Durham, N.C.	1	D1
WING	Dayton, O.	5	U2
KPAM	Portland, Ore.	5	D1
WLSH	Lansford, Pa.	5	D3
KOV	Pittsburgh, Pa.	5	U4
WPCC	Clinton, S.C.	1	D1
WYMB	Manning, S.C.	1	D1
WCMT	Martin, Tenn.	1	D1
KBUD	Athens, Tex.	1	D1
KRIG	Odessa, Tex.	1	U2
WIKI	Chester, Va.	5	D1
WRIS	Roanoke, Va.	5	D1
WRDS	So. Charleston, W. Va.	1	D1
WKBH	LaCrosse, Wis.	5	U2
KWYO	Sheridan, Wyo.	1/0.5	U1
CFUN	Vancouver, B.C.	50	U4
CKSL	London, Ont.	10	U4
CHLP	Montreal, Que.	10	U3
XEBS	Mexico, D.F.	5/1	U1
XEKB	Guadalajara, Jal.	5/0.25	U1
XECF	Los Mochis, Sin.	1/0.5	U1
XETAB	Villa Hermosa, Sin.	1/0.5	U1
XEAS	Nuevo Laredo, Tams.	1/0.25	U1
+low power: 14 US.			
1420			
WACT	Tuscaloosa, Ala.	5	D1
KHFH	Sierra Vista, Ariz.	1/0.5	U2
KXOW	Hot Springs, Ark.	5	D1
KPOC	Pocahontas, Ark.	1	D1
KJST	Joshua Tree, Calif.	1	D1
KSTN	Stockton, Calif.	5/1	U4
KGEL	Santa Clara, Calif.	1	U3
WBRD	Bradenton, Fla.	1	D3
WDBF	Delray Beach, Fla.	5/0.5	U4
WETH	St. Augustine, Fla.	1	D1
WAVO	Avondale Estates, Ga.	1	D3
WRBL	Columbus, Ga.	5	U2
WPEH	Louisville, Ga.	1	D1
WLET	Toccoa, Ga.	5	D1
WIMS	Michigan City, Ind	5/0.5	U4
WOC	Davenport, Iowa	5	U4
KJCK	Ulysses, Kans.	1/0.5	U4
WTCR	Ashland, Ky.	5	D1
WHBN	Harrodsburg, Ky.	5/1	D1
WVJS	Owensboro, Ky.	5/1	U4
KPEL	Lafayette, La.	1/0.5	U2
WBSM	New Bedford, Mass.	5/1	U3
WVEC	Pittsfield, Mass.	1	U2
WKPR	Kalamazoo, Mich.	1	D3
KTOE	Mankato, Minn.	5	U2
WSUH	Oxford, Miss.	1	D1

Call	Location	kW	Hrs.
WQBC	Vicksburg, Miss.	1/0.5	U1
WIGG	Wiggins, Miss	1	D1
KOOO	Omaha, Nebr.	1	D3
KSYX	Santa Rosa, N.M.	1	D1
WALY	Herkimer, N.Y.	1	D1
WLNA	Peekshill, N.Y.	1	D1
WVOT	Wilson, N.C.	1/0.5	U2
WHK	Cleveland, O.	5	U2
KTJS	Hobart, Okla.	1	D1
KYNG	Coos Bay, Ore.	1	D1
WCOJ	Coatsville, Pa.	5	U2
WCED	DuBois, Pa.	5/0.5	U2
WEUC	Ponce, P.R.	1	U1
WCRE	Cheraw, S.C.	1	D1
KABR	Aberdeen, S.D.	1	D1
WEMB	Erwin, Tenn.	5	D1
WKSR	Pulaski, Tenn.	1	U2
KTRE	Lufking, Tex.	1	U2
KGNB	New Braunfels, Tex.	1	D1
KPEP	San Angelo, Tex.	1	D1
WWSR	St. Albans, Vt.	1	D1
WDDY	Gloucester, Va.	1	D1
WKCW	Warrenton, Va.	5	D1
KITI	Chehalis, Wash.	1	D1
KUJ	Walla Walla, Wash.	5	U2
*CKDY	Digby, N.S.	1	U3
CKPT	Peterborough Ont.	5	U4
CJMT	Chicoutimi, Que.	1	U3
CJVR	Melfort, Sask.	10	U2
	Sondre Stromfjord, Greenland	0.25	U1
XEXX	Tijuana, B.C.	2	U1
XEF	Cd. Juarez, Chih.	5	U1
XEWE	Irapuato, Gto.	5	U1
XEH	Monterrey, N.L.	1	U1
XEWJ	Tehuacan, Pue	1	U1
XEEW	Matamoros, Tams.	1	U3
+ low power: 11 US/6 Mex.			
	Thule AFB, Greenland	1	U
1430			
WFHK	Pell City, Ala.	1	D1
WRMG	Red Bay, Ala.	1	D1
KHBM	Monticello, Ark.	1	D1
KAMP	El Centro, Calif.	1	D1
KARM	Fresno, Calif.	5	U3
KALI	San Gabriel, Calif.	5	U4
KOSI	Aurora, Colo.	5	U2
WLAK	Lakeland, Fla.	5/1	U1
WPCF	Panama City, Fla.	5	U4
WGFS	Covington, Ga.	1	D1
WRCD	Dalton, Ga.	1	D1
WWGS	Tifton, Ga.	5/1	U2
WEEF	Highland Park, Ill.	1	D3
WIRE	Indianapolis, Ind.	5	U2
KASI	Ames, Iowa	1	D1
WNAV	Annapolis, Md.	5/1	U2
WTTT	Amherst, Mass.	5	D3
WHIL	Medford, Mass.	5	D1
WION	Ionia, Mich.	5	D3
WBRB	Mt. Clemens, Mich.	5	D3
WLAU	Laurel, Miss.	5	D1
WILL	St. Louis, Mo.	5	U4
KRGI	Grand Island, Nebr.	5/1	U2
KTYN	Minot, N.D.	5	D1
WNJR	Newark, N.J.	5	U2
KKAT	Roswell, N.M.	5/1	U2
WENE	Endicott, N.Y.	5	U2
WMNC	Morganton, N.C.	5/1	U2
WDJS	Mt. Olive, N.C.	1	D1
WRXO	Rosboro, N.C.	1	D1
WFOB	Fostoria, O.	1	U4
KELI	Tulsa, Okla.	5	U2
KGAY	Salem, Ore.	5	D1
WVAM	Altoona, Pa.	5/1	U2
WNEL	Caguas, P.R.	5/0.5	U1
WBLR	Batesburg, S.C.	1	D1
WATP	Marion, S.C.	1	D1
WBUG	Ridgeland, S.C.	1	D1
KBRK	Brookings, S.D.	1	D1
WJBE	Knoxville, Tenn.	1	D1
WENO	Madison, Tenn.	5/1	U2
WHER	Memphis, Tenn.	1	D1
KSTB	Breckenridge, Tex.	1	D1
KEES	Gladewater, Tex.	1	D1
KCOH	Houston, Tex.	1	D1
KLO	Ogden, Utah	5	U3
WIVE	Ashland, Va.	1	D1
*WKEX	Blacksburg, Va.	1	D1
WDIC	Clincho, Va.	1	D1
KBRC	Mt. Vernon, Wash.	5/1	U2
WEIR	Weirton, W. Va.	1	U4
WBEV	Beaver Dam, Wis.	1	D1
WRDN	Durand, Wis.	1	D3
CKFH	Toronto, Ont.	10	U4
XERAC	Campeche, Cam.	1	U1
XEIG	Iguala, Gro.	1	U1
XELY	Morelia, Mich.	1	U1
XEOX	Cd. Obregon, Son.	5	U1
XEWD	Cd. Miguel Aleman	2/0.25	U1
XELL	Veracruz, Ver.	1	U1
+ low power: 7 US/1 Mex.			
1440			
WHHY	Montgomery, Ala.	5/1	U2
KDOT	Scottsdale, Ariz.	5	D1
KHOG	Fayetteville, Ark.	1	D1
KOKY	Little Rock, Arks.	5	D1
KVON	Napa, Calif.	1/0.5	U4
KPRO	Riverside, Calif.	1	U1
KCOY	Santa Maria, Calif.	1	U2
*WAYK	Lehigh Acres, Fla.	5/1	U4
WABR	Winter Park, Fla.	5/1	U2
WWCC	Bremen, Ga.	1	D1
WGIG	Brunswick, Ga.	5/1	U2
WVMG	Cochran, Ga.	1	D1
WIOK	Normal, Ill.	1/0.5	U4
WPRS	Paris, Ill.	1	D1
WGEM	Quincy, Ill.	5/1	U4
WROK	Rockford, Ill.	5/0.5	U5
KEWI	Topeka, Kans.	5/1	U3
WCDS	Glasgow, Ky.	1	D1
WPDE	Paris, Ky.	1	D1
WEZJ	Williamsburg, Ky.	1	D1
KMLB	Monroe, La.	5/1	U2
WJAB	Westbrooke, Me.	5	D1
WAAB	Worcester, Mass.	5	U4
WBCM	Bay City, Mich.	1/0.5	U1
WDOW	Dowagiac, Mich.	1	D1
WCHB	Inkster, Mich.	1/0.5	U4
KQRS	Golden Valley, Minn.	5/0.5	U2
WRBE	Lucedale, Miss.	5	D1
WSEL	Pontotoc, Miss.	1	D1
WMVB	Millville, N.J.	1	D3
WBAB	Babylon, N.Y.	1	D1
WJJL	Niagara Falls, N.Y.	1	D1
WSGO	Oswego, N.Y.	1	D1
WBLA	Elizabethtown, N.C.	1	D1
WBUY	Lexington, N.C.	5/1	U2
KILO	Grand Forks, N.D.	1/0.5	U1
WHHH	Warren, O.	5	U4
KMED	Medford, Ore.	5/1	U1
KODL	The Dalles, Ore.	1	U2
WCDL	Carbondale, Pa.	5	D1
WGCB	Red Lion, Pa.	1	D1
WOOK	Greenville, S.C.	5	U2
WZYX	Cowan, Tenn.	1	D1
KPUR	Amarillo, Tex.	5/1	U2
KEYS	Corpus Christi, Tex.	1/0.5	U2
KDNT	Denton, Tex.	5/0.5	U2
KETX	Livingston, Tex.	5	D1
WKLV	Blackstone, Va.	5	D1
WHRN	Herndon, Va.	1	D3
KDNC	Spokane, Wash.	5	D1
WHIS	Bluefield, W. Va.	5/0.5	U1
WAJR	Morgantown, W. Va.	5/0.5	U4
WNFL	Green Bays, Wis.	5/0.5	U4
*	Wetaskiwin, Alta.	1	U3
CFCP	Courtenay, B.C.	1	U2
CKPM	Ottawa, Ont.	10	U3
XELZ	Mexico, D.F.	10	U1
+ low power: 6 US/1 Can/1 Mex.			
1450			
WDNG	Anniston, Ala.	1/0.25	U1
WYAM	Bessemer, Ala.	1/0.25	U1
WDIG	Dotham, Ala.	1/0.25	U1
WFIX	Huntsville, Ala.	1/0.25	U1
WLAY	Muscle Shoals, Ala.	1/0.25	U1
KNOT	Prescott, Ariz.	1/0.25	U1
KVSL	Show Low, Ariz.	1/0.25	U1
KOLD	Tucson, Ariz.	1/0.25	U1
KJWH	Camden, Ark.	1/0.25	U1
KYOR	Blythe, Calif.	1/0.25	U5
KPAL	Palm Springs, Calif.	1/0.25	U1
KTIP	Porterville, Calif.	1/0.25	U1
KSOL	San Francisco, Calif.	1/0.25	U1
KVML	Sonora, Calif.	1/0.25	U1
KVEN	Ventura, Calif.	1/0.25	U5
KGIW	Alamosa, Colo.	1/0.25	U1
KYOU	Greeley, Colo.	1/0.25	U1
WNAB	Bridgeport, Conn.	1/0.25	U1
WILM	Wilmington, Del.	1/0.25	U1
WOL	Washington, D.C.	1/0.25	U1
WMFJ	Daytona Beach, Fla.	1/0.25	U1
WBSR	Pensacola, Fla.	1/0.25	U1
WSPB	Sarsota, Fla.	1/0.25	U1
WTAL	Tallhassee, Fla.	1/0.25	U1
WGPC	Albany, Ga.	1/0.25	U1
WBHF	Cartersville, Ga.	1/0.25	U1
WCON	Cornelia, Ga.	1/0.25	U1
WKEU	Griffin, Ga.	1/0.25	U1
WMVG	Milledgeville, Ga.	1/0.25	U1
WBYG	Savannah, Ga.	1/0.25	U1
WVLD	Valdosta, Ga.	1/0.25	U1
KVSI	Montpelier, Ida.	1/0.25	U1
KEEP	Twin Falls, Ida.	1/0.25	U1
WVON	Cicero, Ill.	1/0.25	U1
WCVS	Springfield, Ill.	1/0.25	U1
WLYV	Fort Wayne, Ind.	1/0.25	U1
WXVW	Jeffersonville, Ind.	1/0.25	U1
WASK	Lafayette, Ind.	1/0.25	U1
WAOV	Vincennes, Ind.	1/0.25	U1
KLWW	Cedar Rapids, Iowa	1/0.25	U1
KWBW	Hutchinson, Kans.	1/0.25	U1
WTCO	Campbellsville, Ky.	1/0.25	U1
WWXL	Manchester, Ky.	1/0.25	U1
WPAD	Puducah, Ky.	1/0.25	U1
WLKS	West Liberty, Ky.	1/0.25	U1
KSIG	Crowley, La.	1/0.25	U1
KNOC	Natchitoches, La.	1/0.25	U1
WLKN	Lincoln, Me.	1/0.25	U1
WRKD	Rockland, Me.	1/0.25	U1
WKTQ	South Paris, Me.	1/0.25	U1
WTBO	Cumberland, Md.	1/0.25	U1
WMAS	Springfield, Mass.	1/0.25	U1
WATZ	Alpena, Mich.	1/0.25	U1
WHTC	Holland, Mich.	1/0.25	U1
WMIQ	Iron Mountain, Mich.	1/0.25	U1
WIBM	Jackson, Mich.	1/0.25	U1
WKLA	Ludington, Mich.	1/0.25	U1
WNBY	Newberry, Mich.	1/0.25	U1
WHLS	Port Huron, Mich.	1/0.25	U1
KATE	Albert Lea, Minn.	1/0.25	U1
KBUN	Bemidji, Minn.	1/0.25	U1
KBMW	Breckenridge, Minn.	1/0.25	U1
WELY	Ely, Minn.	1/0.25	U1
KFAM	St. Cloud, Minn.	1/0.25	U1
WROX	Clarksdale, Miss.	1/0.25	U1
WCJU	Columbia, Miss.	1/0.25	U1
WJXN	Jackson, Miss.	1/0.25	U1
WOKK	Meridan, Miss.	1/0.25	U1
WNAT	Natchez, Miss.	1/0.25	U1
WROB	West Point, Miss	1/0.25	U1
KFTW	Fredericktown, Mo.	1/0.25	U1
WMBH	Joplin, Mo.	1/0.25	U1
KIRX	Kirkland, Mo.	1/0.25	U1
KOKO	Warrensburg, Mo.	1/0.25	U1

Call	Location	kW	Hrs.
KWPM	West Plains, Mo.	1/0.25	U1
KXXL	Bozeman, Mont.	1/0.25	U1
KUDI	Great Falls, Mont.	1/0.25	U1
KRBN	Red Lodge, Mont.	1/0.25	U1
KVCK	Wolf Point, Mont.	1/0.25	U1
KGCA	Rugby, N.D.	1/0.25	U1
KWBE	Beatrice, Nebr.	1/0.25	U1
WKXL	Concord, N.H.	1/0.25	U1
WFPG	Atlantic City, N.J.	1/0.25	U1
WCTC	New Brunswick, N.J.	1/0.25	U1
KLMX	Clayton, N.M.	1/0.25	U1
KOBE	Las Cruces, N.M.	1/0.25	U1
KENM	Portales, N.M.	1/0.25	U1
WCLI	Corning, N.Y.	1/0.25	U1
WWSC	Glens Falls, N.Y.	1/0.25	U1
WHDL	Olean, N.Y.	1/0.25	U1
WKIP	Poughkeepsie, N.Y.	1/0.25	U5
WKAL	Rome, N.Y.	1/0.25	U1
WATA	Boone, N.C.	1/0.25	U1
WIZS	Henderson, N.C.	1/0.25	U1
WHKP	Hendersonville, N.C.	1/0.25	U1
WHIT	New Bern, N.C.	1/0.25	U1
WFBS	Spring Lake, N.C.	1/0.25	U1
WJER	Dover, O.	1/0.25	U1
WMOH	Hamilton, O.	1/0.25	U1
WLEC	Sandusky, O.	1/0.25	U1
KWHW	Altus, Okla.	1/0.25	U1
KGFF	Shawnee, Okla.	1/0.25	U1
KSIW	Woodward, Okla.	1/0.25	U1
KEED	Eugene, Ore.	1/0.25	U1
KFLW	Klamath Falls, Ore.	1/0.25	U1
KLBM	LaGrande, Ore.	1/0.25	U1
WWGO	Erie, Pa.	1/0.25	U1
WFRA	Franklin, Pa.	1/0.25	U1
WDAD	Indiana, Pa.	1/0.25	U1
WPAM	Pottsville, Pa.	1/0.25	U1
WMPT	S. Williamsport, Pa.	1/0.25	U1
WMAJ	State College, Pa.	1/0.25	U1
WJPA	Washington, Pa.	1/0.25	U1
WCPR	Coame, P.R.	1/0.25	U1
WSVP	West Warwick, R.I.	1/0.25	U1
WQNS	Charleston, S.C.	1/0.25	U1
WCRS	Greenwood, S.C.	1/0.25	U1
WHSC	Hartsville, S.C.	1/0.25	U1
WMYB	Myrtle Beach, S.C.	1/0.25	U1
KBFS	Belle Fourche, S.D.	1/0.25	U1
KYNT	Yankton, S.D.	1/0.25	U1
WLAR	Athens, Tenn.	1/0.25	U1
WMOC	Chattanooga, Tenn.	1/0.25	U1
WDSG	Dyersburg, Tenn.	1/0.25	U1
WLAF	LaFohette, Tenn.	1/0.25	SH1
WGNS	Murfreesboro, Tenn.	1/0.25	U1
KAYC	Beaumont, Tex.	1/0.25	U1
KMBL	Junction, Tex.	1/0.25	U1
KCYL	Lampasas, Tex.	1/0.25	U1
KMHT	Marshall, Tex.	1/0.25	U1
KNET	Palestine, Tex.	1/0.25	U1
KSNY	Snyder, Tex.	1/0.25	U1
KURA	Moab, Utah	1/0.25	U1
KEYY	Provo, Utah	1/0.25	U1
KDXU	St. George, Utah	1/0.25	U1
WSNO	Barre, Vt.	1/0.25	U1
WTSA	Brattleboro, Vt.	1/0.25	U1
WFTR	Front Royal, Va.	1/0.25	U1
WFNZ	Highland Springs	1/0.25	U1
WREL	Lexington, Va.	1/0.25	U1
WMVA	Martinsville, Va.	1/0.25	U1
WLPM	Suffolk, Va.	1/0.25	U1
KBKW	Aberdeen, Wash.	1/0.25	U1
KCLX	Colfax, Wash.	1/0.25	U1
KAYE	Puyallup, Wash.	1/0.25	U1
WPAR	Parkersburg, W. Va.	1/0.25	U1
KFIZ	Fond du Lac, Wis.	1/0.25	U1
WDLB	Marshfield, Wis.	1/0.25	U1
WRCO	Richland Centre,	1/0.25	U1
KVOW	Riverton, Wyo.	1/0.25	U5
CFJR	Brockville, Ont.	1/0.25	U5
CHUC	Port Hope, Ont.	1	U4
CJBM	Caucapscal, Que.	1/0.25	U1
CHEF	Granby, Que.	10/0.25	U5
XEJM	Monterrey, N.L.	1/0.25	U1
XENA	Queretaro, Qro.	1/0.25	U1
XEDJ	Magdalena, Son.	1	U1
XEVH	Valle Hermosa.	1/0.25	U1
XECM	Cd. Mante, Tams.	1	U1
XEPP	Orizaba, Ver.	1	U1
XEJD	Poza Rica, Ver.	1	U1
+ low power: 30 US/8 Can/9 Mex.			
1460			
WFMH	Cullman, Ala.	5/0.5	U2
WPNX	Phenix City, Ala.	5/1	U2
KTYM	Inglewood, Calif.	5	D3
KDON	Salinas, Calif.	5	U3
KVRE	Santa Rosa, Calif.	1	D3
KYSN	Colorado Spngs	1/0.5	U2
WBAR	Bartow, Fla.	1	D1
WZEP	DeFuniak Spgs., Fla.	1	D1
WMBR	Jacksonville, Fla.	5	U2
WDYX	Buford, Ga.	5	D1
WROY	Carmi, Ill.	1	D1
WIXN	Dixon, Ill.	1	D3
WKAM	Goshen, Ind.	1/0.5	U2
WOCH	North Vernon, Ind.	1	D1
KSO	Des Moines, Iowa	5	U2
KCRB	Chanute, Kans.	1	D1
WXOK	Baton Rouge, La.	5/1	U2
KBSF	Spring Hill, La.	1	D1
WEMD	Easton, Md.	1/0.5	U4
WBET	Brockton, Mass.	5/1	U2
WBRN	Big Rapids, Mich.	1	D1
WPON	Pontiac, Mich.	1/0.5	U2
KDWA	Hastings, Minn.	1	D1
*	Northfield, Minn.	5	D1
KDMA	Montevideo, Minn.	1	U2
WELZ	Belzoni, Miss.	1	D1
WCIS	Moss Point, Miss.	1	D3
KIRL	St. Charles, Mo.	5	D3
KRNY	Kearney, Nebr.	5	D1
KENO	Las Vegas, Nev.	5/1	U2
WJJZ	Mount Holley, N.J.	5	D3
WOKO	Albany, N.Y.	5	U2
WHEC	Rochester, N.Y.	5	U2
WAKS	Fuquay Spgs., N.C.	1	D1
WBNS	Columbus, O.	5/1	U2
WPVL	Painesville, O.	1	D3
KROW	Dallas, Ore.	5	D1
WCMB	Harrisburg, Pa.	5	U2
WDOG	Allendale, S.C.	1	D1
WBCU	Union, S.C.	1	U2
WJAK	Jackson, Tenn.	1	D1
WEEN	Lafayette, Tenn.	1	D1
KLLL	Lubbock, Tex.	1	D1
WACO	Waco, Tex.	1	U2
WPRW	Manassas, Va.	5	U4
WRAD	Radford, Va.	5/0.5	U2
KYAC	Kirkland, Wash.	5	D3
KIMA	Yakima, Wash.	5	U2
WBUC	Buckhannon, W. Va.	5	D1
WTMB	Tomah, Wis.	1	D1
CJOY	Guelph, Ont.	10/5	U4
CKRB	St. Georges de Beauce, Que.	10/5	U2
XEYC	Cd. Juarez, Chih.	1	U1
XEHE	Atotonilco el Alto, Jal.	1	U1
XELX	Zitacuaro, Mich.	10	U2
XEHX	Cd. Obregon, Son.	1/0.25	U1
XEJT	Tampico, Tam.	1	U1
+ low power: 13 US/1 Mex.			
1470			
WBLO	Evergreen, Ala.	1	D1
KUTY	Palmdale, Calif.	5	D1
KXOA	Sacramento, Calif.	5/1	U4
WMMW	Meriden, Conn.	1	D1
WCWR	Dunedin, Fla.	5	D1
WRBD	Pompano Beach, Fla.	5	D3
WAAG	Adel, Ga.	1	D1
WDOL	Athens, Ga.	1	D1
WCLA	Claxton, Ga.	1	D1
WRGA	Rome, Ga.	5	U2
WMPP	Chicago Heights, Ill.	1	D3
WMBD	Peoria, Ill.	5	U4
WHUT	Anderson, Ind.	1	D1
KTRI	Sioux City, Iowa	5	U4
KWVY	Waverly, Iowa	1	D3
KARE	Atchison, Kans.	1	U3
KLIB	Liberal, Kans.	1	D1
WSAC	Fort Knox, Ky.	1	D1
KTDL	Farmerville, La.	1	D1
KPLC	Lake Charles, La.	5/1	U2
WLAM	Lewiston, Me.	5	D3
WJDY	Salisbury, Md.	5	D3
WTTR	Westminster, Md.	1	D1
WSRO	Mariboro, Mass.	1	D3
WKMF	Flint, Mich.	5/1	U4
KANO	Anoka, Minn.	1	D1
WCHJ	Brookhaven, Miss.	1	D1
KTCB	Malden, Mo.	1	D1
WTKO	Ithaca, N.Y.	1	D1
WPDM	Potsdam, N.Y.	1	D1
WPGF	Burgaw, N.C.	1	D1
WBIG	Greensboro, N.C.	5	U2
WPNC	Plymouth, N.C.	1	D1
WTOE	Spruce Pine, N.C.	1	U4
WOHO	Toledo, O.	5	D1
KRAF	Reedsport, Ore.	5	U2
WSAN	Allentown, Pa.	1/0.5	U2
WFAR	Farrell, Pa.	5	D1
WQXL	Columbia, S.C.	1	D1
WINH	Georgetown, S.C.	1	D1
WEAG	Alcoa, Tenn.	5/1	U4
WVOL	Berry Hill, Tenn.	5/1	U2
KRBC	Abilene, Tex.	1	D1
WTZE	Tazewell, Va.	5/1	U1
KELA	Centralia, Wash.	5/1	U1
KSEM	Moses Lake, Wash.	5/1	U4
WWHY	Huntingdon, W. Va.	5	D1
WBKV	West Bend, Wis.	1	D1
CFRW	Winnipeg, Man.	5	U3
CHOW	Wellend, Ont.	1/0.5	U4
CFOX	Pointe Claire, Que.	10/5	U4
XEBBC	Tijuana, B.C.	5	U1
XEDS	Colima, Col.	1	U1
XESM	Mexico, D.F.	10/5	U1
XEND	Durango, Dgo.	1	U1
XEYA	Irapuato, Gto.	1	D1
XEHI	Ci Aleman Tams.	1/0.25	U1
+ low power: 15 US/2 Mex.			
1480			
WARI	Abbeville, Ala.	1	D1
WBTS	Bridgeport, Ala.	1	D1
WLPH	Irondale, Ala.	5	D1
WABB	Mobile, Ala.	5	U2
KTHS	Berryville, Ark.	1	D1
KRED	Eureka, Calif.	5	U2
KYOS	Merced, Calif.	5	U2
KWIZ	Santa Ana, Calif.	5/1	U4
KSEE	Santa Maria, Calif.	1	D1
KPUB	Pueblo, Colo.	1	D3
WAPG	Arcadia, Fla.	1	D1
WVCF	Windermere, Fla.	1	D1
WYZE	Atlanta, Ga.	5	D1
WRDW	Augusta, Ga.	5	U2
WGSB	Geneva, Ill.	1/0.5	U4
WTHI	Terre Haute, Ind.	1	U3
WRSW	Warsaw, Ind.	1/0.5	U4
KBEA	Mission, Kans.	1/0.5	U4
KLEO	Wichita, Kans.	5/1	U4
WKOA	Hopkinsville, Ky.	1	D1
WNKY	Neon, Ky.	1	D1
WTLO	Somerset, Ky.	1	D1
KJOE	Shreveport, La.	1	D1
WSAR	Fall River, Mass.	5	U4
WAFT	Grand Rapids, Mich.	5	D1
WIOS	Tawas City, Mich.	1	D3
KAUS	Austin, Minn.	1	U4
KEHG	Fosston, Minn.	5	D1
KGCX	Sidney, Mont.	5	U3
KLMS	Lincoln, Nebr.	1	U4
KWEW	Hobbs, N.M.	5/1	U2

Call	Location	kW	Hrs.
WLEA	Hornell, N.Y.	5	D1
WHOM	New York, N.Y.	5	U4
WADR	Remsen, N.Y.	5	D1
WAME	Charlotte, N.C.	5	U4
WWKO	Fair Bluff, N.C.	1	D1
WMSJ	Sylva, N.C.	5	D1
*WYDK	Yadkinville, N.C.	1	D1
WHBC	Canton, O.	5	U2
WCIN	Cincinnati, O.	5/0.5	U4
WDAS	Philadelphia, Pa.	5/1	U4
WISL	Shamokin, Pa.	1	U2
WMDD	Fajardo, P.R.	5	U1
KSDR	Watertown, S.D.	1	D1
WMQM	Memphis, Tenn.	5	D1
WJLE	Smithville, Tenn.	1	D1
KBOX	Dallas, Tex.	5/0.5	U4
KLVL	Pasadena, Tex.	1/0.5	U2
KONI	Spanish Fork, Utah	1	D1
WCFR	Springfield, Vt.	5	D1
WBBL	Richmond, Va.	5	ST4
WLEE	Richmond, Va.	5	ST4
WBLU	Salem, Va.	5	D1
KOOD	Lakewood, Wash.	1	D3
KVAN	Vancouver, Wash.	1	D1
WISM	Madison, Wis.	5/1	U2
KRAE	Cheyenne, Wyo.	1	D1
CHRD	Drummondville, Que.	10	U4
XEHM	Cd. Delicias, Chih.	1	D1
XETKR	Monterrey, N.L.	1/0.25	U1
XENS	Navajoa, Son.	1	U2
XEPR	Poza Rica, Ver.	5	U1
+ low power: 14 US/1 Can/2 Mex.			
1490			
WAJF	Decatur, Ala.	1/0.25	U1
WRLD	Lanette, Ala.	1/0.25	U1
WHBB	Selma, Ala.	1/0.25	U1
KYCA	Prescott, Ariz.	1/0.25	U1
KXAR	Hope, Ark.	1/0.25	SH1
KDRS	Paragould, Ark.	1/0.25	U1
KOTN	Pine Bluff, Ark.	1/0.25	U1
KARV	Russelville, Ari.	1/0.25	U1
KWAC	Bakersfield, Calif.	1/0.25	U1
KRKC	King City, Calif.	1/0.25	SH1
KTOB	Petaluma, Calif.	1/0.25	U1
KBLF	Red Bluff, Calif.	1/0.25	U1
KDB	Santa Barbara, Calif.	1/0.25	U1
KOWL	South Lake Tahoe, Calif.	1/0.25	U1
KSYC	Yreka, Calif.	1/0.25	U1
KBOL	Boulder, Colo.	1/0.25	U1
WJBS	DeLand, Fla.	1/0.25	U1
WSRA	Milton, Fla.	1/0.25	U1
WPXE	Starke, Fla.	1/0.25	U1
WTTB	Vero Beach, Fla.	1/0.25	U1
WMOG	Brunswick, Ga.	1/0.25	U1
WMJM	Cordele, Ga.	1/0.25	U1
WMRE	Monroe, Ga.	1/0.25	U1
WSNT	Sandersville, Ga.	1/0.25	U1
KCID	Caldwell, Ida.	1/0.25	U1
WDAN	Danville, Ill.	1/0.25	U1
WAMV	East St. Louis Ill.	1/0.25	U1
WOPA	Oak Park, Ill.	1/0.25	U1
WZOE	Princeton, Ill.	1/0.25	U1
WKBV	Richmond, Ind.	1/0.25	U1
WNDU	South Bend, Ind.	1/0.25	U1
KBUR	Burlington, Iowa	1/0.25	U1
WDBQ	Dubuque, Iowa	1/0.25	U1
KRIB	Mason City, Iowa	1/0.25	U1
KKAN	Phillipsburg, Kans.	1/0.25	SH1
KTOP	Topeka, Kans.	1/0.25	U1
WFKY	Frankfort, Ky.	1/0.25	U1
WKAY	Glasgow, Ky.	1/0.25	U1
WOMI	Owensboro, Ky.	1/0.25	U1
WSIP	Paintsville, Ky.	1/0.25	U1
WIKC	Bogalusa, La.	1/0.25	U1
KEUN	Eunice, La.	1/0.25	U1
KJIN	Houma, La.	1/0.25	U1
KRUS	Ruston, La.	1/0.25	U1
WPOR	Portland, Me.	1/0.25	U1
WTVL	Waterville, Me.	1/0.25	U1
WARK	Hagerstown, Md.	1/0.25	U1
WHAV	Haverhill, Mass.	1/0.25	U1
WMRC	Milford, Mass.	1/0.25	U1
WTXL	W. Springfield, Mass.	1/0.25	U5
WABJ	Adrian, Mich.	1/0.25	U1
WTIQ	Manistique, Mich.	1/0.25	SH1
WMDN	Midland, Mich.	1/0.25	U1
WLRC	Whitehall, Mich.	1/0.25	U1
KXRA	Alexandria, Minn.	1/0.25	U1
KOZY	Grand Rapids, Minn.	1/0.25	U1
KLGR	Redwood Falls, Minn.	1/0.25	U1
WLOX	Biloxi, Miss.	1/0.25	U1
WCLD	Cleveland, Miss.	1/0.25	U1
WHOC	Philadelphia, Miss.	1/0.25	U1
WTUP	Tupelo, Miss.	1/0.25	U1
KTTR	Rolla, Mo.	1/0.25	U1
KDRO	Sedalia, Mo.	1/0.25	U1
KDBM	Dillon, Mont.	1/0.25	U1
KBON	Omaha, Nebr.	1/0.25	U1
WEMJ	Laconia, N.H.	1/0.25	U1
WLDB	Atlantic City, N.J.	1/0.25	U1
KRSN	Los Alamos, N.M.	1/0.25	U1
KRTN	Raton, N.M.	1/0.25	SH1
WCSS	Amsterdam, N.Y.	1/0.25	U1
WKNY	Kingston, N.Y.	1/0.25	U1
WICY	Malone, N.Y.	1/0.25	U1
WOLF	Syrakuse, N.Y.	1/0.25	U5
WSSB	Durham, N.C.	1/0.25	U1
WFLB	Fayetteville, N.C.	1/0.25	U1
WLOE	Leaksville, N.C.	1/0.25	U1
WRNB	New Bern, N.C.	1/0.25	U1
WRMT	Rocky Mount, N.C.	1/0.25	U1
WSTP	Salisbury, N.C.	1/0.25	U1
WSVM	Valdese, N.C.	1/0.25	U1
WHSL	Wilmington, N.C.	1/0.25	U1
KNDC	Hettinger, N.D.	1/0.25	SH1
KOVC	Valley City, N.D.	1/0.25	U1
WBEX	Chillicothe, O.	1/0.25	U1
WJMO	Cleveland Hts., O.	1/0.25	U1
WMOA	Marietta, O.	1/0.25	U1
WMRN	Marion, O.	1/0.25	U1
KBIK	Muskogee, Okla.	1/0.25	U1
KBKR	Baker, Ore.	1/0.25	U1
KRNR	Roseburg, Ore.	1/0.25	U1
KBZY	Salem, Ore.	1/0.25	U1
WESB	Bradford, Pa.	1/0.25	U1
WAZL	Hazleton, Pa.	1/0.25	U1
WARD	Johnstown, Pa.	1/0.25	U1
WGAL	Lancaster, Pa.	1/0.25	U1
WBCB	Levittown, Pa.	1/0.25	U1
WMRF	Lewistown, Pa.	1/0.25	U1
WMGW	Meadville, Pa.	1/0.25	U1
WNBT	Wellsboro, Pa.	1/0.25	U1
WGCD	Chester, S.C.	1/0.25	U1
WMRB	Greenville, S.C.	1/0.25	U1
KORN	Mitchell, S.D.	1/0.25	U1
WOPI	Bristol, Tenn.	1/0.25	U1
WDXB	Chattanooga, Tenn.	1/0.25	U1
WROL	Knoxville, Tenn.	1/0.25	U1
WJJM	Lewisburg, Tenn.	1/0.25	U1
WDXL	Lexington, Tenn.	1/0.25	U1
KNOW	Austin, Tex.	1/0.25	U1
KBST	Big Spring, Tex.	1/0.25	U1
KSAM	Huntsville, Tex.	1/0.25	U1
KZZN	Littlefield, Tex.	1/0.25	U1
KPLT	Paris, Tex.	1/0.25	U1
KDOK	Tyler, Tex.	1/0.25	U1
KVWC	Vernon, Tex.	1/0.25	U1
KVOG	Ogden, Utah	1/0.25	U1
WKVT	Brattleboro, Vt.	1/0.25	U1
WFAD	Middlesbury, Vt.	1/0.25	U1
WIKE	Newport, Vt.	1/0.25	U1
WCVA	Culpeper, Va.	1/0.25	U1
WVEC	Hampton, Va.	1/0.25	U1
WAYB	Waynewboro, Va.	1/0.25	U1
KBRO	Bremerton, Wash.	1/0.25	U1
KENE	Toppenish, Wash.	1/0.25	U1
KTEL	Walla Walla, Wash.	1/0.25	U1
WXIT	Charleston, W. Va.	1/0.25	U1
WTCS	Fairmount, W. Va.	1/0.25	U1
WLOH	Princton, W. Va.	1/0.25	U1
WSGB	Sutton, W. Va.	1/0.25	U1
WGEZ	Beloit, Wis.	1/0.25	U1
WLCX	LaCrosse, Wis.	1/0.25	U1
WIGM	Medford, Wis.	1/0.25	U1
WOSH	Oshkosh, Wis.	1/0.25	U1
KGOS	Torrington, Wyo.	1/0.25	U1
CFWB	Campbell, B.C.	1/0.25	U1
CKAD	Middleton, N.S.	1/0.25	U1
†CKEN	Kentville, N.S.	1/0.25	U3
CHYM	Kitchener, Ont.	10/5	U4
CKBM	Montmagny, Que.	1/0.25	U1
CJSN	Shaunavan, Sask.	1/0.25	U1
XEED	Ameca, Jal.	1/0.25	U1
XEGT	Zamora, Mich.	1/0.25	U1
XEXE	Queretaro, Qro.	1	U1
XEFF	Matehala, S.L.P.	1	U1
XEDR	Guaymas, Son.	1/0.25	U1
XEMS	Matamoros, Tams.	1	U1
XEVZ	Acayucan, Ver.	1	U1
+ low power: 32 US/8 Can/4 Mex.			
1500			
WVSM	Rainsville, Ala.	1	D1
KGMR	Jacksonville, Ark.	1	D1
KBBQ	Burbank, Calif.	10	U4
KXRX	San Jose, Calif.	10/5	U4
WFIF	Milford, Conn.	5	D3
WTOP	Washington, D.C.	50	U4
WSEM	Donalsonville, Ga.	1	D1
WDEN	Macon, Ga.	1	D1
WBRI	Indianapolis, Ind.	5	D3
WAKE	Valparaiso, Ind.	1	D3
KWRG	New Road, La.	1	D1
WVOC	Battle Creek, Mich.	1	D3
WJBK	Detroit, Mich.	50/5	U4
KSTP	St. Paul, Minn.	50	U2
KDFN	Doniphan, Mo.	1	D1
WBFN	Quitman, Miss.	1	D1
WKBX	Winston-Salem, N.C.	10	D4
KOSG	Pawhuska Okla.	5	D3
WMNT	Manati, P.R.	1/0.25	U1
WEAC	Gaffney, S.C.	1	D1
WDEB	Jamestown, Tenn.	1	D1
CKAY	Duncan, B.C.	1	U3
*	St. Catherine, Ont.	1	D3
XERH	Mexico, D.F.	20/5	U2
+ low power: 14 US/1 Mex.			
1510			
KALF	Mesa, Aris.	10	D1
KSOM	Ontario, Calif.	10	U4
KTIM	San Rafael, Calif.	1	D1
KDKO	Littleton, Colo.	1	U3
WNLC	New London, Conn.	10/5	U4
WKAI	Macomb, Ill.	1	D1
KIFG	Iowa Falls, Iowa	1	D1
KANS	Larned, Kans.	1	D1
WMEX	Boston, Mass.	50/5	U4
WJCO	Jackson, Mich.	5	D3
WKPO	Prentiss, Miss.	1	D1
KCCV	Independence, Mo.	1	D1
WRAN	Dover, N.J.	1	U4
WPUT	Brewster, N.Y.	1	D3
WEAL	Greenboro, N.C.	1	D1
WYRU*	Red Springs, N.C.	1	D1
WLGN	Logan, Ohio	5	D1
*	Sallisaw, Okla.	1	D1
WAHT	Annville-Cleona, Pa.	5	D3
WSJW	Woodruff, S.C.	1	D1
WLAC	Nashville, Tenn.	50	U2
KGA	Spokane, Wash.	50	U2
WAUK	Waukesha. Wis.	10	D3
CKOT	Tilsonburg, Ont.	1	D3
CJRS	Sherbrooke, Que.	10	U4
+ low power: 15 US/1 Can/1 Mex.			
1520			
WAOA	Opelika, Ala.	5	D3
KACY	Port Hueneme, Calif.	10/1	U4
WTLN	Apopka, Fla.	5	D3
WGNP	Indian Rocks Beach, Fla.	1	U3
WIXX	Oakland Park, Fla.	1	D1
WDGL	Douglasville, Ga.	1	D1
WXPQ	Eatontown, Ga.	1	D1

Call	Location	kW	Hrs.
WNMT	Garden City, Ga.	1	D1
WHOW	Clinton, Ill.	5	D1
WSVL	Shelbyville, Ind.	1/0.25	U4
KSIB	Creston, Iowa	1	D1
KXKW	Lafayette, La.	10/0.5	U2
WKJR	Muskegon Hts., Mich.	1	D1
KOLM	Rochester, Minn.	10	D1
KMPL	Sikeston, Mo.	5/0.5	U4
WSLT	Ocean City, N.J.	1	D3
WKBW	Buffalo, N.Y.	50	U3
WTHE	Mineola, N.Y.	10	D3
WDSL	Mocksville, N.C.	5	D1
WINW	Canton, O.	1	D3
WKNT	Kent, O.	1	D3
WTTO	Toledo, O.	1	U4
KOMA	Oklahoma Cy., Okla.	50	U2
KYXI	Oregon City, Ore.	50/10	U4
WKMG	Newberry, S.C.	1	D1
WSLV	Ardmore, Tenn.	1	D1
WIDD	Elizabeth, Tenn.	1	D1
+ low power: 17 US.			
1530			
WAAO	Andalusia, Ala.	1	D1
WLCB	Moulton, Ala.	1	D1
KFBK	Sacramento, Calif.	50	U3
KRYT	Colorado Springs, Colo.	1	D1
*WDJZ	Bridgeport, Conn.	10	D3
WENG	Englewood, Fla.	1	D1
WTTI	Dalton, Ga.	10	D3
KNBI	Norton, Kans.	1	D1
KWLA	Many, La.	1	D1
WPNO	Auburn, Me.	1	D1
WTHM	Lapeer, Mich.	5	D3
WRPM	Poplarville, Miss.	10	D1
KPCR	Bowling Green, Mo.	1	D1
KECK	Lincoln, Nebr.	5	D3
WCKY	Cincinnati, O.	50	U2
WHYP	North East, Pa.	1	D1
WUPR	Utuado, P.R.	1/0.25	U1
WASC	Spartanburg, S.C.	1	D1
WTNE	Trenton, Tenn.	1	D1
KGTN	Georgetown, Tex.	1	D1
KGBT	Harlington, Tex.	50/10	U2
KCLR	Ralls, Tex.	5	D1
†KCGO	Cheyenne, Wyo.	10/1	U4
XESD	Leon, Gto.	1	D1
XEUR	Texcoco, Mex.	5	U3
+ low power: 10 US/1 Can.			
1540			
KCOK*	Camden, Ala.	1	D1
WANL	Lineville, Ala.	1	D1
KASA	Phoenix, Ariz.	10	D3
KPOL	Los Angeles, Calif.	50/10	U4
WJGA	Jackson, Ga.	1	D1
WOGA	Sylvester, Ga.	1	D1
WSMI	Litchfield, Ill.	1	D1
KXEL	Waterloo, Iowa	50	U2
KCTO	Columbia, La.	1	D1
WDON	Wheaton, Md.	1	D1
WLEF	Greenwood, Miss.	1	D1
KBXM	Kennett, Mo.	1	D1
WKXR	Exeter, N.H.	1	D1
WPTR	Albany, N.Y.	50	U3
WPAW	E. Syracuse, N.Y.	1	D1
WKYK	Burnsville, N.C.	1	D1
WRPL	Charlotte, N.C.	1	D1
WIFM	Elkin, N.C.	1	D1
WABQ	Cleveland, O.	1	D1
KFSW	Eugene, Ore.	1	D1
WRCP	Philadelphia, Pa.	50	D3
WPTS	Pittston, Pa.	1	D1
WPME	Punxsutawney, Pa.	5	D1
WADK	Newport, R.I.	1	D1
WKKR	Pickens, S.C.	1	D1
KBUY	Ft. Worth, Tex.	50/1	U4
KGBC	Galveston, Tex.	1/0.25	U2
KEDA	San Antonio, Tex.	1	D1
WRGM	Richmond, Va.	10	D3
KFKF	Bellevue, Wash.	1	U3
CHIN	Toronto, Ont.	50	D3
XENC	Celaya, Gto.	1/0.25	U1
+ low power: 13 US/1 Mex.			
1550			
WAAY	Huntsville, Ala.	5/0.5	U2
WMOO	Mobile, Ala.	50	D3
KUAT	Tucson, Ariz.	50	D1
KKHI	San Francisco, Calif.	10	U4
KQXI	Arvada, Colo.	10	D1
WEXT	West Hartford, Conn.	1	D1
WRIZ	Coral Gables, Fla.	10	D3
WYOU	Tampa, Fla.	10	D1
WTHB	Augusta, Ga.	5	D1
WYNX	Smyrna, Ga.	10	D1
WJIL	Jacksonville, Ill.	1	D3
KEDD	Dodge Cy., Kans.	1	D3
WIRV	Irvine, Ky.	1	D1
WLUX	Baton Rouge, La.	5	D1
KOKA	Shrevport, La.	10/0.5	U2
WSER	Elkton, Md.	1	D3
WNTN	Newton, Mass.	10	D1
WSHN	Fremont, Mich.	1	D1
WOKJ	Jackson, Miss.	50/10	U4
WSAO	Senatobia, Miss.	5	D1
KGMO	Cape Girardeau, Mo.	5	D3
KKJO	St. Joseph, Mo.	5	U2
*KOBY	Reno, Nev.	10	D3
WBVM	Utica, N.Y.	1	D1
WPXY	Greenville, N.C.	1	D1
WYNA	Raleigh, N.C.	1	D1
WTYN	Tryon, N.C.	1	D1
WFCM	Winston-Salem, N.C.	1	D1
KOWB	Fargo, N.D.	5	D1
WLOA	Braddock, Pa.	1	D1
WBSC	Bennettsville, S.C.	10/5	U2
WKYE	Bristol, Tenn.	1	D1
KCAN	Canyon, Tex.	1	D1
KRGO	Salt Lake City, Utah	10	D1
WKBA	Vinton, Va.	10	D3
WVAB	Virginia Bch., Va.	5	D1
KOQT	Bellingham, Wash.	1	D1
KGAR	Vancouver, Wash.	1	D1
WXVA	Charles Town, W. Va.	5	D1
WMIR	Lake Geneva, Wis.	1	D3
WMAD	Madison, Wis.	5	D3
WEVR	River Falls, Wis.	1	D1
CBE	Windsor, Ont.	10	U3
XEBG	Tijuana, B.C.	1	U1
XENU	Nuevo Laredo, Tams.	5	
+ low power: 32 US/2 Can.			
1560			
WAGC	Centre, Ala.	1	D1
KPMC	Bakersfield, Calif.	10	U3
WTAI	Eau Gallie, Fla.	5	D1
WYSE	Inverness, Fla.	1	U2
WCIK	Gordon, Ga.	5	D1
WRIN	Renssalaer, Ind.	1	D1
KRCB	Council Bluffs, Iowa	1	D1
WDXR	Paducah, Ky.	10/1	U4
WAFI	Middlesburg, Ky.	1	D1
*	Crowley, La.	1	D3
WBGS	Slidell, La.	1	D1
WTPS	Portage, Mich.	1	D3
WMIC	Sandusky, Mich.	1	D3
KBEW	Blue Earth, Minn.	1	D1
KTUI	Sullivan, Mo.	1	D1
WQXR	New York, N.Y.	50	U4
WBKC	Chardon, O.	1	D3
WTNS	Coshocton, O.	1	D1
WCNW	Fairfield, O.	5	D3
WTOD	Toledo, O.	5	D3
KWCO	Chickasha, Okla.	1/0.25	U2
WRSJ	Bayamon, P.R.	5/0.25	U1
*	Clemson, S.C.	1	D1
WAGL	Lancaster, S.C.	10	D4
WWGM	Nashville, Tenn.	10	D3
KEGG	Dangerfield, Tex.	1	D3
KGHO	Hoquaim, Wash.	1	D1
WFSP	Kingwood, W. Va.	1	D1
XEVIP	Mexico, D.F.	1/0.5	U1
XERX	Salamanca, Gto.	1/0.25	U1
+ low power: 5 US/1 Can.			
1570			
WCRL	Oneonta, Ala.	1	D1
WTQX	Selma, Ala.	5	D1
KCVR	Lodi, Calif.	5	D3
KACE	Riverside, Calif.	1	D3
WTWB	Auburndale, Fla.	5	D1
WFBF	Fernandina Bch., Fla.	1	D1
WOKC	Okeechobee, Fla.	1	D1
WMES	Ashburn, Ga.	1	D1
WGHC	Clayton, Ga.	1	D1
WSSA	College Pk., Ga.	1	D1
WOKZ	Alton, Ill.	1	D1
WFRL	Freeport, Ill.	5	D3
WBEE	Harvey, Ill.	1	D3
WHEL	New Albany, Ind.	1	D1
KLLA	Leesville, La.	1	D1
KMAR	Winnsboro, La.	1	D1
WTOW	Towson, Md.	5	D3
WPEP	Taunton, Mass.	1	D1
WDEW	Westfield, Mass.	1	D1
WMRP	Flint, Mich.	1	D1
WFUR	Grand Rapids, Mich.	1	D1
KUXL	Golden Valley, Minn.	1	D1
WONA	Winona, Miss.	1	D1
WKOL	Amsterdam, N.Y.	1	D1
WFLR	Dundee, N.Y.	1	D1
WBUZ	Fredonia, N.Y.	1	D1
WHRF	Riverhead, N.Y.	1	D3
WNCA	Silver City, N.C.	1	D1
*	Boardman, Ohio	1	D3
WDNL*	Warren, Ohio	1	D3
KOLS	Pryor, Okla.	1	D1
KOHU	Hermiston, Ore.	1	D1
WPGM	Danville, Pa.	1	D1
WBUX	Doylestown, Pa.	5	D3
WOTW	Latrobe, Pa.	1	D1
WLSC	Loris, S.C.	1	D1
WHLP	Centerville, Tenn.	1	D1
WCLE	Cleveland, Tenn.	1	D1
WTRB	Ripley, Tenn.	1	D1
WSWV	Pennington, Gap. Va.	1	D1
WYTI	Rocky Mount, Va.	1	D1
WAPL	Appleton, Wis.	1	D1
CHUB	Nanaimo, B.C.	10	U4
*	Thornhill, Man.	1	U3
CKLM	Montreal, Que.	50	U4
CFOR	Orillia, Ont.	10/1	U1
†CHLO	St. Thomas, Ont.	10	U4
*	Burlington, Ont.	1	U4
XERF	Cd. Acuna, Coah.	250	U1
+ low power: 23 US.			
1580			
WEYY	Talladega, Ala.	1	D1
KTUF	Tempe, Ariz.	50	D1
KFDF	Van Buren, Ark.	1	D1
KWIP	Merced, Calif.	1	D1
KDAY	Santa Monica, Calif.	50	U4
KPIK	Colorado Springs, Colo.	5	D1
WSBP	Chattahoochee, Fla.	1	D1
WSRF	Ft. Lauderdale, Fla.	10/5	U4
WVGT	Mt. Dora, Fla.	1	D1
WCCF	Punta Gorda, Fla.	1	D3
WCLS	Columbus, Ga.	1	U2
WKIG	Glennville, Ga.	1	D1
WJVA	South Bend, Ind.	1	D1
WAXU	Georgetown, Ky.	10	D3
KLUV	Haynesville	1	D1
KLOU	Lake Charles, La.	1	U2
WPGC	Morningside, Md.	10	D3
WRBJ	St. John's, Mich.	1	D3
WAMY	Amory, Miss.	5	D1
WORV	Hattiesburg, Miss.	1	D1
WESY	Leland, Miss.	1	D1
WPMP	Pascagoula, Miss.	1	D1
KAMI	Cozad, Nebr.	1	D1

Call	Location	kW	Hrs.
WNJH	Hammondton, N.J.	1	D1
KLOS	Albuquerque, N.M.	1	D1
WPAC	Patchogue, N.Y.	10	D3
WVKO	Columbus, O.	1	D3
KLTR	Blackwell, Okla.	1	D1
WEND	Ebensburg, Pa.	1	D1
WORG	Orangeburg, S.C.	1	D1
WBBR	Travelers Rest, S.C.	1	D1
WLIJ	Shelbyville, Tenn.	1	D1
WSKT	So. Knoxville, Tenn.	1	D3
KIRT	Mission, Tex.	1	D1
KWED	Seguin, Tex.	1	D1
KBGO	Waco, Tex.	1/0.5	U4
WILA	Danville, Va.	1	D1
WPUV	Pulaski, Va.	5	D1
WTTN	Watertown, Wis.	1	D1
CBJ	Chicoutimi, Que.	10	U4
XELI	Chilpancingo, Gro.	1	U1
XENQ	Tulancingo, Hgo.	1/0.5	U1
XEQL	Zamora, Mich.	1/0.1	U1
XEDM	Hermosillo, Son.	50	U1
+ low power: 30 US.			
1590			
WATM	Atmore, Ala.	5	D1
WVNA	Tuscumbia, Ala.	5/1	U2
KPBA	Pine Buff, Ark.	1	D1
KLIV	San Jose, Calif.	5/0.5	U2
KUDU	Ventura, Calif.	1	U3
WTBY	Waterbury, Conn.	5	U3
WILZ	St. Petersburg Bch. Fla.	1	D1
WELE	So. Daytona, Fla.	1	D1
WALG	Albany, Ga.	5/1	U4
WLFA	Lafayette, Ga.	5	D1
WNMP	Evanston, Ill.	1	D1
WAIK	Galesburg, Ill.	5	D3
WGEE	Indianapolis, Ind.	5	D3
KWBG	Boone, Iowa	1/0.5	U2
KVGB	Great Bend, Kans.	5	U2
WLBN	Lebanon, Ky.	1	D1
KEVL	White Castle, La.	1	D1
WETT	Ocean City, Md.	1/0.5	U4
WTVB	Coldwater, Mich.	5/1	U2
WSMA	Marine City, Mich.	1	D3
KRAD	E. Grand Forks, Minn.	1	U2
WWUN	Jackson, Miss.	5/1	U2
KDEX	Dexter, Mo.	1	D1
KPRS	Kansas City, Mo.	1	D1
KCLU	Rolla, Mo.	1	D1
WSMN	Nashua, N.H.	5	U3
WGGO	Salamanca, N.Y.	1	D1
WVOE	Chadbourne, N.C.	1	D1
WNOS	High Point, N.C.	1	D1
WAKR	Akron, Ohio	5	U2
*KZYX	Weatherford, Okla.	1	D1
KTIL	Tillamook, Ore.	5/1	U2
WZUM	Carnegie, Pa.	1	D3
WCBG	Chambersburg, Pa	5/1	U2
WEEZ	Chester, Pa.	1	U2
WXRF	Guayama, P.R.	1	U1
WARV	Warwick, R.I.	1	D1
WABV	Abbeville, S.C.	1	D1
WACA	Camden, S.C.	1	D1
WJSO	Jonesboro, Tenn.	5	D1
WDBL	Springfield, Tenn.	1	D1
KGAS	Carthage, Tex.	1	D1
KINT	El Paso, Tex.	1	D1
KYOK	Houston, Tex	5	U2
KCBD	Lubbock, Tex.	1	U4
KTOD	Sinton, Tex.	1/0.5	U4
WGOE	Richmond, Va.	5	D1
KSND	Seattle, Wash.	5	U2
WIXK	New Richmond, Wis.	5	D1
WSWW	Platteville, Wis.	1/0.5	U2
WQTC	Two Rivers, Wis.	1	D1
WAWA	West Allis, Wis.	1	D3
KCGO	Cheyenne, Wyo.	1	D1
*	Guelph, Ont.	10	U3
*	Kitchener-Waterloo.	10	U4
XEBZ	Meoqui, Chih.	1	U1
XEVOZ	Mexico, D.F.	10/5	U1
+ low power: 18 US/1 Can/1 Mex.			
1600			
WEUP	Huntsville, Ala.	5	D1
WAPX	Montgomery, Ala.	1	U2
KVIO	Cottonwood, Ariz.	1	D1
KXEW	Tucson, Ariz.	1	D3
KGST	Fresno, Calif.	5	D1
KWOW	Pomona, Calif.	5/0.5	U1
KUBA	Yuba City, Calif.	5/0.5	U2
KLAK	Lakewood, Colo.	5	U2
WKEN	Dover, Del.	1/0.5	U2
WKTX	Atlantic Bch., Fla.	1	D1
WXVI	Riviera Bch., Fla.	1	U2
WOKB	Winter Grdn., Fla.	5	D3
WNGA	Austell, Ga.	1	D1
WNGA	Nashville, Ga.	1	D1
WRBN	Warner Robins, Ga.	1	D1
*KOFE	St. Maries, Ida.	1	D1
WCGO	Chicago Hts., Ill.	1	D3
WARU	Peru, Ind.	1	D1
KLGA	Algona, Iowa	5	D3
KCRG	Cedar Rapids, Iowa	5	U2
KFNV	Ferriday, La.	1	D1
KLEB	Golden Meadow, La.	1	D1
KNCB	Vivian, La.	5	D1
WINX	Rockville, Md.	1/0.5	U2
WUNR	Brookline, Mass.	5	U3
WTYM	E. Longmeadow, Mass.	5	D1
WAAM	Ann Arbor, Mich.	5/1	U4
WTRU	Muskegon, Mich.	5	U2
WKDL	Clarksdale, Miss.	1	D1
KATZ	St. Louis, Mo.	5/1	U2
WWRL	New York, N.Y.	5	U4
WMCR	Oneida, N.Y.	1	D1
WGIV	Charlotte, N.C.	1/0.5	U2
WIDU	Fayetteville, N.C.	1	D1
WHVL	Hendersonville, N.C.	1	D3
WFRC	Reidsville, N.C.	1	U2
WKSK	W. Jefferson, N.C.	1	D1
WAQI	Ashtabula, O.	1	D3
WBLY	Springfield, O.	1	D1
KUSH	Cushing, Okla.	1	D1
KASH	Eugene, Ore.	5/1	U2
KOHI	St. Helens, Ore.	1	D1
WLUZ	Bayamon, P.R.	1	U3
WFIS	Fountain Inn, S.C.	1	D1
WHBT	Harriman, Tenn.	5	D1
WKBJ	Milan, Tenn.	1	D1
KBBB	Borger, Tex.	5	D1
KBOR	Brownsville, Tex.	1	U4
KYAL	McKinney, Tex.	5	D3
KWEL	Midland, Tex.	1	D1
KOGT	Orange, Tex.	1	U2
KBBC	Centerville, Utah	1	D1
WCPK	Chesapeake, Va.	1	D1
WHLL	Wheeling, W. Va.	5	D1
WCWC	Ripon, Wis.	5	U4
CJRN	Niagra Falls, Ont.	10	U4
XEAE	Cd. Acuna, Coah.	1	U1
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CENTRAL AMERICA & CARIBBEAN

ABBREVIATIONS: Cad = Cadena; Ci = Ciudad; Dif = Difusora, Difusão; Dom. Rep. = Dominican Republic; Educ = Educadora; Emis = Emisora (Sp), Emissora (Port); Ft = Fort; Isl = Islands; JBC = Jamaica Broadc. Corpo; Net = Network; nom = nominal frequency; Pres = Presidente, Presidencia; Prov = Provincial, Provincia; Pto = Puerto; R = Radio (Sp), Rádio (Port); rep = reported; Salv = Salvador; Sta = Santa; Stgo = Santiago; Sto = Santo; Soc = Sociedad (Sp), Sociedade (Port); Transm = Transmisora; Univ = Universidad, Universidade; v = varying frequency; WIBS = Windward Islands Broadc. Service; () Name in brackets indicates precise transmitter site.

kHz	kW	Call	Country	Station/Location
530	0.25	TICAL	Costa Rica	R. Rumbo, Cartago nom 525
535	0.5		Windw. Isl.	W.I.B.S., St. George's, Grenada
540	5	HICM	Dom. Rep.	R. ABC, Sto Domingo
	1	YNOW	Nicaragua	R. Corporación, Managua
	0.25	HOU23	Panama	R. Mia, Penonomé
550	2	TISBJ	Costa Rica	R. Libertad, San José
	30	CMAN	Cuba	R. Rebelde, P. del Rio
	0.5	YSFG	El Salv.	R. Variedades, Sonsonate
	10	TGRV	Guatemala	R. Cinco Sesenta, Guatemala
	5		Jamaica	R. Jamaica, Montego Bay
	1	HON31	Panama	R. Aeropuerto, Panama
	5/1	WPAB	Puerto Rico	R. 550, Ponce
555	2	YNS	Nicaragua	R. Tic Tac, Chinandega
560	1		Cuba	R. Rebelde, Las Mercedes (rel)
	1	HIAA	Dom. Rep.	R. Ritmos, Santiago
	5	YSABC	El Salv.	R. Emisora Salvadoreña, San Miguel
	1	HRTX	Honduras	R. Satélite, Tegucigalpa
	5		Jamaica	Kingston (JBC)
	0.25	HOH2	Panama	Circuito R.P.C. Colón (rel. 610)
570	10	CMHI	Cuba	R. Rebelde, Sta. Clara
	5/10	HIMS	Dom. Rep.	R. Cristal, Sto. Domingo
	1	TGPA	Guatemala	R. Palmeras, Escuintla
	5	ZIZ	Leew. Isl.	R. ZIZ, St. Kitts
	10	YNRR	Nicaragua	R. Regalos, Managua
	0.25	WVDI	Trinidad	AFRTS, Port of Spain (Chaguarmas)
575	5	TIJVA	Costa Rica	Cadena Musical, San José
	0.25	HOO23	Panama	R. Capital, Panama
580	0.5	CMJM	Cuba	R. Rebelde, C. de Avila
	10	YSEB	El Salv.	Cadena Radial Salvadoreña, S. Salvador
	1	TGY	Guatemala	R. Progreso, Guatemala
	5		Jamaica	R. Jamaica, Point Galina
	5	WKAQ	Puerto Rico	R. El Mundo, Santurce
590	150	CMW	Cuba	R. Rebelde, La Habana
	5	CM		CMKC Cad. Prov. de Oriente, Baracoa
	0.5	HIAB	Dom. Rep.	R. Isabel Torres, Puerto Plata
	5	TGRQ	Guatemala	R. Quince, Sta Cruz
	1	HRT5	Honduras	R. Satélite, San Pedro Sula
	10	YNRD	Nicaragua	R. 590, Managua
	1	HOH3	Panama	Circuito R.P.C., Chitré (rel. 610)
600	150	CMKV	Cuba	R. Rebelde, San Germán
	1	CMHV		R. Rebelde, Trinidad
	0.25	HIRD	Dom. Rep.	R. Unica, Castillo
	5	YSNK	El Salv.	R. Exitos, S. Salvador
	1	WAEL	Puerto Rico	R. 600, Mayaguez
605	0.5	YNCRO	Nicaragua	R. Minerva, Masaya
606	1	TIAV	Costa Rica	R. Tic-Tac, San José (nom. 600)
610	1	TGGA	Guatemala	R. Señorial, Guatemala
610	10	HRLP	Honduras	R. America, Tegucigalpa
	1	HOHM	Panama	Circuito R.P.C., Panama
610	10	VPL6	Trinidad	R. Guardian, Port of Spain
615	10	YNM	Nicaragua	Radiodif. Nacional, Managua
620	10	HISD	Dom. Rep.	R. TV Dominicana, Sto. Domingo
	5		Jamaica	Spur Tree (JBC)
	0.5		Leew. Isl.	Antigua Broadc. Sce, St. Johns, Antigua
625	50/100	TIRICA	Costa Rica	La Voz de la Victor, San José
630	60	CMHQ	Cuba	R. Liberación, Santa Clara (rep. on 650)
	2			R. Liberación, Santiago
	1	HIAF	Dom. Rep.	R. Monte Cristi
	10	YSLN	El Salv.	R. 630, San Salvador
	1	WQBS	Puerto Rico	Quality Broadc. Corp, Santurce
640	50	CMQ	Cuba	R. Liberación, La Habana
	20		Guadeloupe	Pointe-à-Pitre (Arnouville)
	20	TGW	Guatemala	La Voz de Guatemala
	1	HRMT	Honduras	R. Molino Rojo, San Pedro Sula
	1	HRVF		R. Exitos, Tegucigalpa
	25		Leew. Isl.	R. Antilles, Montserrat
	0.25	HOK	Panama	R. Aeropuerto, Colón
645	10	HOS22	Panama	R. Mia, Panama (nom. 650)
650	1	TIBAS	Costa Rica	Monumental, San José
	5	HIAT	Dom. Rep.	R. Universal, Sto. Domingo
	1	YNWW	Nicaragua	R. Sport, Granada
655	10	YSS	El Salv.	R. Nacional de El Salvador, S. Salvador
660	1	CMGH	Cuba	R. Progreso, Sta. Clara
	2	HIAM	Dom. Rep.	R. Quisqueyana, Stgo.
	1	HOH4	Panama	Circuito R.P.C., David (rel 610)
670	150	CMKP	Cuba	R. Progreso, San German
	1	CMAF		R. Progreso, P. del Rio
	10	TGRT	Guatemala	R. Fabulosa, Guatemala
	10	HRN	Honduras	La Voz de Honduras, Tegucigalpa
	1	HOLY	Panama	R. Hogar, Panama
675	5	TIJC	Costa Rica	Sonora Musical, San José (v)
	15	YND	Nicaragua	UniónRadio, Managua
680	1	CMHN	Cuba	R.Progreso,Cienfuegos
	1	CMDB		R. Progreso, Santiago
	0.4	TGMQ	Guatemala	R. Retema, San Marcos
	0.5	HOF32	Panama	R. Centenario, Pto Armuelles
	10	WAPA	Puerto Rico	Hearst R. Inc, San Juan
690	50	CMBC	Cuba	R.Progreso,LaHabana
	5	HIAW	Dom. Rep.	R. Guarachita, Sto. Domingo
695	10	TGHR	Guatemala	R. Mundial, Guatemala (nom 700)
	0.5		Windw. Isl.	W.I.B.S, Roseau, Dominica
700	2	TIHB	Costa Rica	R. Reloj, San José
	1	CMJT	Cuba	R. Progreso, C. de Avila
	1	HIDC	Dom. Rep.	R. Mao, Mao
	5	YSQR	El Salv.	R. Morazán, Mejicanos
	1	HRRT	Honduras	R. Exitos, San Pedro Sula

kHz	kW	Call	Country	Station/Location
700	5		Jamaica	Montego Bay (JBC)
	10	YNSC	Nicaragua	R. Centauro, Managua
	1	HOA	Panama	R. Panamericana, Panama
705	0.5		Windw. Isl.	WIBS, Kingston, St. Vincent
710	1	YSRS	El Salv.	Circuito YSR, Sonsonate
	1	TGXL	Guatemala	R. Tecun Uman, Quezaltenango
	1	HRHR	Honduras	La Voz de Occidente, Sta. Rosa de Copán
	1	HOB52	Panama	Ondas del Caribe, B. del Toro
	1/0.5	WKJB	Puerto Rico	R. WKJB, Mayagüez
715	1	HRTV	Honduras	R. Television, Tegucigalpa
720	30	CMGN	Cuba	R. Rebelde, Colón
	5	YSRA	El Salv.	Circuito YSR, Sta Ana
	1	YSRU		Circuito YSR, Usulutan
	1	HRTV2	Honduras	R. Television, San Pedro Sula
	5		Jamaica	R. Jamaica, Kingston
	0.5	YNBB	Nicaragua	Baby Radio, Managua
	1	HOB50	Panama	R. Republica, Chitre (Los Santos)
725	1	TILX	Costa Rica	Columbia, San José
	3	HIAQ	Dom. Rep.	R. Norte, Santiago
	10	TGN	Guatemala	R. Cultural, Guatemala
	1	YNS	Nicaragua	R. Titania, Chinandega
730	10	CMKJ	Cuba	R. Liberación, Holguin
	5	HIZ	Dom. Rep.	Emisoras Nacionales, Sto. Domingo
	10	YSR	El Salv.	Circuito YSR, San Salvador
	0.25	HRQQ	Honduras	R. Musical, Comayagua
	1	HP5C	Panama	R. Miramar, Panama
	20		Trinidad	R. Trinidad, Port of Spain
740	10	CMJL	Cuba	R. Liberación, Camagüey
740	1	CMAQ		R. Liberación, del Rio
	5	YSRM	El Salv.	Circuito YSR, San Miguel
	1	HRJS	Honduras	R. Metropolitana, San Pedro Sula
	10	WIAC	Puerto Rico	Bestov Broadc. Inc, San Juan
750	1	TIRA	Costa Rica	Radiolandia, San José
		HI..	Dom. Rep.	R. Rutas, La Romana
	10	YSKLA	El Salv.	R. Universal, Sta Ana
	1	HRDN	Honduras	R. Caribe, La Ceiba
	5		Jamaica	Point Galina (JBC)
	50	YNX	Nicaragua	R. Equis, Managua (v)
760	10	CMCD	Cuba	Reloj Nacional, La Havana (v)
	1	CMJS		Reloj Nacional, C de Avila
	0.5	HIMD	Dom. Rep.	R. Tamboril, Tamboril
	10	YSKL	El Salv.	R. Cadena YSKL, San Salvador
	10	TGHS	Guatemala	Super Radio, Guatemala
	0.25	4VIE	Haiti	R. Lumière, Jérèmie
	5	HOXO	Panama	La Voz del Istmo, Panama
	5	WORA	Puerto Rico	R. Americas Corp, Mayagüez
770	10	CMDC	Cuba	CMKC Cad. Prov. de Oriente, Holguin
	5	YSKLB	El Salv.	R. Universal, San Miguel
	1	TGBX	Guatemala	R. Fraternidad, Quezaltenango
	10	HRNQ	Honduras	R. Morazán, Tegucigalpa
	5		Jamaica	R. Jamaica, Mandeville
775	4.5	TIW	Costa Rica	R. City, San José
780	10	ZBVI	British Virgin Isl.	R. Station ZBVI, Tortola
	1	CMJN	Cuba	R. Rebelde, Camagüey
	1	HIBO	Dom. Rep.	R. Constanza, Constanza
	1	YNW	Nicaragua	R. Mundial, Matagalpa
	1	YNW		R. Mundial, Jinotepe (rel)
780	0.05	AHD	Puerto Rico	AFCN, Ramey Air Force Base, Aguadilla
785	10		Barbados	Black Rock
790	10	CMCH	Cuba	Cad. Habana, La Habana
	5	HIL	Dom. Rep.	La Voz del Trópico, Sto. Domingo (v)
	5	TGO	Guatemala	La Voz de las Americas, Guatemala
	1	HRVQ	Honduras	R. Satélite, Tegucigalpa
	5	ACA20	Canal Zone	Southern Command Net, Ft. Clayton
795	3.5	TIGPH2	Costa Rica	R. Centro, San José (nom 800)
800	2	CMKL	Cuba	CMKC Cad. Prov. de Oriente, Santiago
	10	YSAX	El Salv.	La Voz Panamericana, San Salvador
	500	PJB	Neth. Ant.	Trans World Radio, Bonaire
	1	YNO	Nicaragua	R. Ivania, Managua
810	1	CMJE	Cuba	R. Progreso, Camagüey
	1	YSFA	El Salv.	R. Lorenzana, San Vincente
	2	TCQ	Guatemala	R. Nacional, Quezaltenango
	1	HOF33	Panama	Onda Popular, Bocas del Toro (rel 965)
	25	WKVM	Puerto Rico	American Colonial Bc Corp, San Juan
820	5	HIAZ	Dom. Rep.	R. Santiago, Santiago
	5	YSDR	El Salv.	R. Tropical, Sta Ana
	5	TGTO	Guatemala	R. Internacional, Guatemala
	1	HRXS	Honduras	R. Sula, San Pedro Sula
	15	YNOL	Nicaragua	Ondas de Luz, Managua
	1	HOL60	Panama	R. Villareal, Serrano
825	1.5	TIOS	Costa Rica	Titania, San José
830	10	CMCA	Cuba	R. Cordón de La Habana, La Habana
	5	HIJB	Dom. Rep.	R. HIJB, Santa Domingo
	4	YSPX	El Salv.	R. Pax, San Miguel
	2.5	4VEC	Haiti	R. St. 4VEH, Cap-Haitien
	1	HRSP	Honduras	R. Moderna, Tegucigalpa (v)
	0.25	HOG	Panama	Your Community St, Panama
834	20		Br. Honduras	R. Belize, Belize
840	5	CMHW	Cuba	R. Cien Dias, Sta. Clara
	5	YSF	El Salv.	R. Vanguardia, San Salvador
	1	HRGO	Honduras	R. Porteña, Pto. Cortéz
	0.5	YNMG	Nicaragua	R. Pinares, Ocotal
	1	HON32	Panama	Ecos de la Montana, Chiriqui
	10		Windw. Isl.	R. Caribbean, Castries, Sta. Lucia
850	10	TIUCR	Costa Rica	R. Universitaria, San Pedro
	2	CMKC	Cuba	CMKC Cad. Prov. de Oriente, Santiago
	1	TGX	Guatemala	R. Ciro's, Guatemala
	10	YNAV	Nicaragua	R. Continental, Managua
	0.5	WABA	Puerto Rico	R. WABA, Aguadilla
855	5	PJC2	Neth. Ant.	R. Curom, Willemstad, Curacao
860	1	CMBL	Cuba	Presentando Música, La Habana
	1	CMJY		R. Cad. Agramonte, Ciego de Avila
	5	HISD	Dom. Rep.	R. TV Dominicana, Sto. Domingo
	1	YSRC	El Salv.	R. Tecana, Santa Ana
	10	HRU	Honduras	R. Centro, Tegucigalpa
	1	HOL55	Panama	R. Reforma, Chitré
865	1	YNW	Nicaragua	R. Mundial, Rivas (rel. 930)
870	10	CMDN	Cuba	R. Rebelde, Guantanamo (v) (rep. on 875 kc)
	1	HIBG	Dom. Rep.	Radiolandia, Santiago
	1	YSAR	El Salv.	R. Comercial, San Salvador

kHz	kW	Call	Country	Station/Location
870	1	TGSM	Guatemala	R. Nacional, San Marcos
	1	HOHO	Panama	R. Musical, Panama
	5	WHOA	Puerto Rico	Continental Broadc. Corp, Hato Rey
875	1	TISRHB	Costa Rica	R. Popular, San José
	1	YNWI	Nicaragua	R. Mundial, León (rel. 930)
880	1	CMAG	Cuba	R. Musical Nacional, Consolación del Sur
	1	CMJB		R. Musical Nacional, Camagüey
	1	HIOR	Dom. Rep.	R. Santa Cruz, Mao
	0.5	YSCD	El Salv.	R. YSCD, Sto. de Maria, Usulután
	10	TGJ	Guatemala	R. Nuevo Mundo, Guatemala
	0.15	4VAA	Haiti	R. Nationale, Porte-au-Prince (v 880-905)
	0.25	HOB51	Panama	Cad. Universal, David
885	1		Leew. Isl.	R. Montserrat, Plymouth
	10	YNOX	Nicaragua	R. Libertad, Managua
890	1	CMHD	Cuba	R. Musical Nacional, Sta. Clara
	1	CMDZ		R. Musical Nacional, Santiago
	5/1	HIPJ	Dom. Rep.	R. Continental, Sto. Domingo
	1	YSLA	El Salv.	R. Musical, Santa Ana
900	6	TICS	Costa Rica	Atenea, San José
	1	CMJV	Cuba	R. Liberación, C. de Avila
	1	HIBN	Dom. Rep.	R. Pot. Plata, Pto. Plata
	5	YNWS	Nicaragua	R. Alma Nica, Managua
	0.5	HOHA	Panama	La Voz del Pueblo, Panama
905	10	YSQJ	El Salv.	Radiópolis, San Salvador
910	10	CMBF	Cuba	R. Musical Nacional, La Habana
	0.25	HIBA	Dom. Rep.	R. Reloj, Sto Domingo (nom. 920)
	1	TGKL	Guatemala	R. Emperador, Guatemala
	10	HRVS	Honduras	R. Católica, Tegucigalpa
	5/0.5	WPRP	Puerto Rico	Voice of Puerto Rico, Ponce
920	1	CMHB	Cuba	R. Musical Nacional, Sancti Spiritus
	0.5	CMAS		R. Cad. Provincial, P. del Rio
	1	TGRS	Guatemala	R. Sur, Escuintla
	10	PJA6	Neth. Ant.	R. Victoria, Oranjestad, Aruba (v)
	1	HOS56	Panama	R. Peninsula, Los Santos
925	1	TICM	Costa Rica	Musical Juvenil, San José
930	1	CMGX	Cuba	R. Musical Nacional, Matanzas
	1	CMKN		R. Rebelde, Santiago
	3	HICK	Dom. Rep.	Ondas del Yaque, Stgo.
	1	YSW	El Salv.	R. Sta. Ana, Sta. Ana
	0.25	4VJS	Haiti	R. Variété, Gonaives
	1	HRZE	Honduras	R. Cortés, Pto. Cortés
	200		Leew. Isl.	R. Antilles, Montserrat (v)
	10	YNW	Nicaragua	R. Mundial, Managua
940	0.25	CMHE	Cuba	R. Doblevé, Fomento
	0.25	CMDJ		CMKC Cad. Prov. de Oriente, Guantánamo
	1	YSTG	El Salv.	R. Sonora, San Salvador
	5	TGTL	Guatemala	La Voz del Hogar, Guatemala
	1	HOX	Panama	R. Tevedós, Panama
	10	WIPR	Puerto Rico	La Emisora del Pueblo, San Juan
945	0.5	YNLM	Nicaragua	R. Monumental, Boaco
950	1	TIECO	Costa Rica	R. Eco, San José (Tibás)
	10	CMBF	Cuba	R. Musical Nacional, La Habana
950	1	HIG	Dom. Rep.	R. Difusora HIG, Sto. Domingo
	1	YSGH	El Salv.	R. Minuto, San Miguel
	5	TGAF	Guatemala	R. Indiana, Mazatenango
	1	HRYW	Honduras	R. Panamericana, Tegucigalpa
955	1	HOB33	Panama	R. Cultura, Concepción
960	1	CMBM	Cuba	Reloj Nacional, Isle de la Juventud
	1	HIF	Dom. Rep.	La Voz del Atlántico, Pto. Plata (v)
	0.25	YSTW	El Salv.	R. Centro, Sonsonate
	0.3	4VCD	Haiti	R. Carillon, Port-au-Prince (v)
	1	HRBT	Honduras	R. Norte, San Pedro Sula
	1	HRAS		R. Columbia, Sta. Barbara
	1	HRGZ		La Voz de Atlántida, La Ceiba
965	5	YNLU	Nicaragua	R. Managua, Managua
	3	HOF	Panama	Onda Popular, Panama
970	5	WSTX	America Virg. Isl.	R. American West Indies Inc, Christiansted, St. Croix
	10	TGAX	Guatemala	R. Continental, Guatemala
	1	HOS97	Panama	Ondas Centrales, Stgo.
975	4	TIRS	Costa Rica	Atenea, San José
980	5	CMCK	Cuba	El Periódico del Aire, La Habana
	3	HISA	Dom. Rep.	R. Cibao, Santiago
	1	YSAN	El Salv.	La Voz de los Ausoles, Ahuachapán
	0.5	YNCR	Nicaragua	R. Mongalo, Rivas
990	1	CMHT	Cuba	R. Sancti Spiritus
	5	YSTA	El Salv.	R. Continental, Mejicanos
	1	TGAL	Guatemala	La Voz de la Perla de Oriente, Chiquimula
	1	HOR59	Panama	R. Impacto, Panama
995	0.2	4VCPS	Haiti	R. Cacique, Port-au-Prince
1000	2	TIGHP	Costa Rica	R. Mil, San José (Tibás)
	1	CMFA	Cuba	R. Cad. Agramonte, Camagüey
	1	TGAH	Guatemala	R. Mil, Guatemala
	1	HRLC	Honduras	R. Continental, San Pedro Sula
	10	YNT	Nicaragua	R. Mil, Managua
	1	WBNB	American Virg. Isl.	Charlotte Amalie, St. Thomas
1010	10	HIJP	Dom. Rep.	R. Comercial, Sto. Domingo
	1	PJC7-1	Neth. Ant.	R. Hoyer, Willemstad, Curacao
	1	TGRX	Guatemala	R. Nacional Miramundo, Zacapa
1012	5	CMKM	Cuba	R. Musical Nacional, Holguin
1013	1	HOU	Panama	La Voz del Barú, David (nom 1025)
1015	10	YSC	El Salv.	R. Internacional, San Salvador (v)
	1	HOU44	Panama	R. Reloj, Panama
1020	0.25	CMBN	Cuba	La Emisora de la Juventud, Nueva Gerona
	0.25	HOF2	Panama	Onda, Popular, Colón (rel 965)
1025	2	TIAC	Costa Rica	R. Fides, San José
	1	YNW	Nicaragua	R. Mundial, Esteli (rel 930)
1030	0.25	CMAC	Cuba	R. Cad. Prov. de P. del Rio, San Cristóbal
	0.25	CMDW		R. Liberación Guantanamo
	0.5	HIDL	Dom. Rep.	R. Novedades, La Vega
	10	TGUX	Guatemala	R. Panamericana, Guatemala (v)
	1	HRXE	Honduras	R. Mil Treinta, Juticalpa

kHz	kW	Call	Country	Station/Location
1030	5	YNVOZ	Nicaragua	R. Reloj, Managua (v) (nom 1015)
1035	10	4VEF	Haiti	R. St. 4VEH, Cap Haitien
	5	YNCN	Nicaragua	R. Occidental, Chinandega
	1	HOS21	Panama	R. Unión, Panama
1040	0.25	CMKW	Cuba	R. Mambi, Santiago
	1	HION	Dom. Rep.	R. Ahora, Sto. Domingo
	1	TGJP	Guatemala	R. Oriental, Jalapa
	1	HRXN	Honduras	R. Ceiba, La Ceiba
	1	HRVH		R. Mil, Tegucigalpa
1045	1	HOJ2	Panama	Ondas del Canajagua, Las Tablas
	0.025		Windw. Isl.	W.I.B.S., Hillsborough, Carriacou
1050	1	TIGPH	Costa Rica	Monumental, San Isidro del General
	1	HICB	Dom. Rep.	La Voz de la Hispaniola, Santiago
	10	YSU	El Salv.	R. Mil Cincuenta, San Salvador
	1	TGSL	Guatemala	R. Sol, Sta. Lucia
	1	HRLE	Honduras	R. Emperador, San Pedro Sula
	2	YNLL	Nicaragua	R. Masaya, Masaya (v)
	0.05	ACE	Puerto Rico	AFCN, Ft Brooke
	0.05	NAU		AFCN, Ft Allen, Ponce
	0.05	NRR		AFCN, Roosevelt Roads
1060	5	CMBQ	Cuba	R. Revolución, La Habana
	0.25	CMDD		CMKC Cad. Prov. de Oriente, Las Mercedes
	10	TGXA	Guatemala	R. Centro, Guatemala
	1	HPM21	Panama	R. Diez Sesenta, Panama
1070	1	HIBI	Dom. Rep.	R. San Francisco de Macorís
	2	TGD	Guatemala	La Voz de Occidente, Quezaltenango
	1	HRXM	Honduras	R. Meridiano, Choluteca
	0.5	YNTV	Nicaragua	R. Centro, Granada
	0.5	WMIA	Puerto Rico	R. Arecibo, Arecibo
1075	5	TIFC	Costa Rica	Faro del Caribe, San José
1080	0.1	CMHS	Cuba	R. Caibarién Caibarien
	0.5	HIMC	Dom. Rep.	R. Programas Quisqueya, Sto. Domingo
	5	YSDM	El Salv.	Cad. Radial Salvadorena, San Miguel
	1	YSEM		R. Dif. YSEM, Planes de Renderos
	1.5	4VA	Haiti	La Voix de la Revolution Duvalié-riste, Port-au-Prince
	1	HRVA	Honduras	R. Corona, San Pedro Sula
	0.5	YNP	Nicaragua	R. Circuito, Chinandega
	1	HOJ23	Panama	R. La Tribuna, Panama
	0.25	WLEY	Puerto Rico	Ponce Broadc. Corp, Cayey
1090	0.5	HIJM	Dom. Rep.	R. Amistad, Santiago
	1	YSMG	El Salv.	La Voz del Espino, Ahuachapán
	1	TGAB	Guatemala	R. Cobán, Cobán
	10	TGZ		R. Popular, Guatemala
	1	YNAE	Nicaragua	R. Musún, Matagalpa
	0.25	WRJS	Puerto Rico	R. St. WRJS, San German
1100	1	TIRN	Costa Rica	Columbia, San Isidro del General
	0.5	CMHU	Cuba	R. Ciudad Milagro
	1	HIHD	Dom. Rep.	La Voz de Oriente, San Pedro de Macorís
	1	YSEF	El Salv.	R. Femenina, Mejicanos
	3	YNQ	Nicaragua	La Voz de la Victoria, Managua
	1	HOR58	Panama	R. Mil Cien, Panama
1110	0.5	HIJJ	Dom. Rep.	R. Jarabacoa, (v)
	0.5	HIMH		R. Real, La Vega
1110	1	TGMK	Guatemala	R. Marinala, Sta. Lucia
	0.5	HRPL	Honduras	R. Progreso, El Progreso
	0.25	WVJP	Puerto Rico	R. Caguas, Caguas
1115	1	YNP	Nicaragua	R. Circuito, León
1120	1	CMDL	Cuba	R. Angulo, Holguín (v)
	1	HICN	Dom. Rep.	R. Antillas, Sto. Domingo
	1	YSOA	El Salv.	R. Libertad, San Salvador
	1	TGC	Guatemala	R. Poderosa, Guatemala
	0.2	4VF	Haiti	R. Union, Port-au-Prince
	1.5	HRD	Honduras	R. Oriental, El Paraiso
	1	HOM21	Panama	R. Minutera, Panamá (v)
	1	TISS	Costa Rica	Monumental, San Isidro del General
1125	1	HOF47	Panama	Onda Popular, Darién (rel 965)
1130	1	CMHA	Cuba	Onda Musical, Sta. Clara
	1	HIRL	Dom. Rep.	R. Exitos, Santiago
	0.5	YSG	El Salv.	R. Chaparrastique, San Miguel
	1	TGVR	Guatemala	La Voz de la Costa Sur, Retalhuleu
	1	HRRO	Honduras	R. Universal, Tegucigalpa
	10	YNRC	Nicaragua	R. Católica de Nicaragua, Managua
	1	HOJ	Panama	R. Provincias, Chitré (v)
1140	0.5	CMJK	Cuba	R. Camagüey, Camagüey
	3	YST	El Salv.	R. El. Mundo, San Salvador
	1	HOB49	Panama	Cad. Universal, Panama (v)
	0.5	WITA	Puerto Rico	R. El Imparcial, San Juan
1146	1	4VAB	Haiti	R. Caraibes, Port-au-Prince (nom 1150)
1150	1	TIGPH3	Costa Rica	Monumental Canal 2, Ci. Quesada
	1	HIAS	Dom. Rep.	Onda Musical, Sto. Domingo
	1	YSCF	El Salv.	Ondas Orientales, La Union
	10	TGRR	Guatemala	R. Reloj, Guatemala
	1	HRQN	Honduras	La Voz del Atlántico, Puerto Cortés (v)
	0.5	YNBC	Nicaragua	Ondas Segovias, Esteli
	0.25	HOS25	Panama	R. Mia de Colón, Colón
1160	0.5	HIDE	Dom. Rep.	R. Tiempo, Cotui
	1	TGRI	Guatemala	R. Izabal, Pto. Barrios
	0.5	HRTZ	Honduras	R. Cristal, Tegucigalpa
1170	2	TGRL	Guatemala	R. Landivar, Quezaltenango
	0.25	4VRD	Haiti	R. Tropiques, Port-au-Prince
	1	YNUW	Nicaragua	R. Dario, León
	0.25	HONZ	Panama	Ondas Istmeñas, Panama
	0.25	WLEO	Puerto Rico	R. St. WLEO, Ponce
1175	0.5	YSCB	El Salv.	La Voz del Pacifico, Sonsonate
1180	10	HIBE	Dom. Rep.	R. Mil, Santo Domingo
	10	TGT	Guatemala	R. Sonora, Guatemala (v)
	1	HOOC	Panama	Ondas Chiricanas, Panama
1190	0.5	CMJP	Cuba	R. CMJP, C. de Avila
	1	TGLU	Guatemala	R. Novedad
	0.15	4V..	Haiti	R. Grand-Anse, Jérémie
	1/6	HRVW	Honduras	R. Centroamérica, San Pedro Sula
	1	HOL47	Panama	R. Libertad, Panama
	10/5	WBMJ	Puerto Rico	Mid-Ocean Broadc. Corp, San Juan
1200	1	TIQ	Costa Rica	R. Casino, Pto. Limón
	1	CMKD	Cuba	R. Reloj Nacional, Holguín
	10	HIDV	Dom. Rep.	R. Santa Maria, La Vega (v)

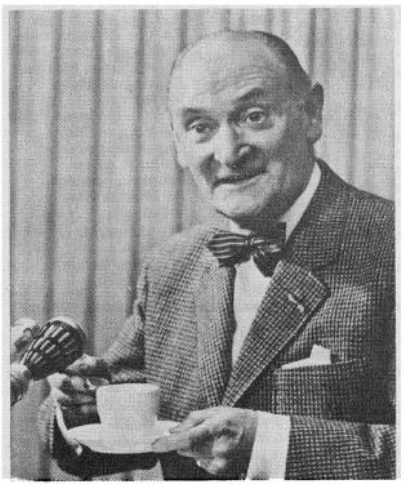
kHz	kW	Call	Country	Station/Location
1200	1	YSDL	El Salv.	La Voz Popular Salvadoreña, Mejicanos
	1	TGRJ	Guatemala	R. Jutiapa, Jutiapa
	1	HRXW	Honduras	R. Comayaguela, Tegucigalpa
	0.5	YNC	Nicaragua	R. Capital, Managua
1210	1	CMHK	Cuba	R. Reloj Nacional, Cruces (v)
	1	HICJ	Dom. Rep	R. Merengue, San Francisco de Macoris
	10	TGED	Guatemala	R. Mil Doscientos Diez, Guatemala (v)
	0.5	4VDS	Haiti	R. Progrès N.B.C., Port-au-Prince
	0.5	YNBB	Nicaragua	R. 15 de Septiembre, Esteli
	4	HOE91	Panama	R. El Mundo, Panama
	1	WHOY	Puerto Rico	R. Hoy, Salinas
1220	5	CMGY	Cuba	R. Veintiseis, Périco
	10	HIN	Dom. Rep.	R. HIN, Sto. Domingo
	3	YSEW	El Salv.	R. Popular, San Salvador
	0.5	TGMT	Guatemala	R. Luminaria, Antigua
	0.5	YNOP	Nicaragua	R. Cultural, Carazo Jinotepe
	1	HOK36	Panama	R. Poderosa, Aguadulce
1225	1	TIGM	Costa Rica	R. Victoria, Cartago
1230	0.25	CMJX	Cuba	R. Morón, Morón (v)
	0.25	CMAD		R. Artemisa, Artemisa
	1	TGAT	Guatemala	R. Atlántida, Pto. Barrios
	0.5	HRQL	Honduras	Centro Radial Hondureña, Siguatepeque
	3	YNCS	Nicaragua	R. Central, Chinandega
	1/0.25	WNIK	Puerto Rico	R. Unica, Arecibo
1240	1	ZNS2	Bahamas	Nassau
	0.25	CMGW	Cuba	R. Veintiseis, Matanzas
	0.25	CMKE		CMKC Cad. Prov. de Oriente, V. de las Tunas
	0.5	HICV	Dom. Rep.	R. Barahona, Barahona
	5	HIAU		La Voz de la Libertad Puerto Plata
	5	TGK	Guatemala	R. Sensación, Guatemala
	1	HRRZ2	Honduras	R. Juticalpa, Juticalpa
	1	YNSV	Nicaragua	R. El Mundo, Managua
	1	HOM56	Panama	R. David, David
	1	WALO	Puerto Rico	R. Oriental, Humaco
1250	0.25	CMHP	Cuba	R. Centro, Placetas
	0.25	CMKA		R. Reloj Nacional, Guantanamo
	5	HIBC	Dom. Rep.	La Voz del Progreso, San Francisco de Macoris
	3	YSI	El Salv.	R. Reloj, San Salvador
	0.5	TGL	Guatemala	R. Victoria, Mazatenango
	0.6	4VYM	Haiti	R. dif. Haitienne, Port-au-Prince (v)
	1	HRQ	Honduras	La Voz de Suyapa, San Pedro Sula
	0.25	HOQ	Panama	R. Nacional, Panama
1255	1	TILM	Guatemala	Columbia Canal 4 Nicoya
1260	5	CMCI	Cuba	R. Reloj Nacional, La Habana
	0.25	CMDE		R. Reloj Nacional, Bayamo
	1	HIT	Dom. Rep.	R. Vision, Sto. Domingo
	1	YNABC	Nicaragua	R. Gueguense, Managua
	1	WISO	Puerto Rico	So. Puerto Rico Bc. Corp, Ponce
1270	1	CMJG	Cuba	R. Reloj Nacional, Camagüey
	1	HISD	Dom. Rep.	R. TV Dominicana Santiago (rel 620)
	1	TGCQ	Guatemala	R. Emis. de la Juventud, Guatemala
1270	1	HRYT	Honduras	R. Estrella de Oro, San Pedro Sula
	1	PJA8	Neth. Ant.	R. Antiliana, St. Nicolaas, Aruba
	2.5	YNWX	Nicaragua	R. Atenas, León
	0.5	HOJ22	Panama	R. La Tribuna, Panama
1275	1	TIRE	Costa Rica	Monumental, San Vito de Java
1276	0.5	YSQZ	El Salv.	R. 1270, San Miguel (nom 1270)
1280	1	CMHM	Cuba	R. Reloj Nacional, Santa Clara
	0.25	CMDP		R. Reloj Nacional, Victoria de las Tunas
	1	YSV	El Salv.	R. Comercial, Sta. Ana
	1	TGAJ	Guatemala	R. Tropicana, Escuintla
	0.2	4VGA	Haiti	R. Capois-la-Mort, Port-au-Prince
	1	HRXA	Honduras	R. Choluteca, Choluteca
	0.25	HOU80	Panama	La Voz del Vigia, Aguadulce
	5/1	WCMN	Puerto Rico	Caribbean Broadc. Corp, Arecibo
1285	2	YNRPS	Nicaragua	R. Granada, Granada
1290	0.25	CMKS	Cuba	R. CMKS Guantanamo
	0.5	HIVD	Dom. Rep.	R. Jánico, Jánico
	1	HIVM		R. Bonao, Bonao
	1	TGTU	Guatemala	R. Nacional, Totonicapán
1295	10	PJD2	Neth. Ant.	Voice of Sint Maarten, Philipsburg
	1	HOS23	Panama	R. Mia, Panama (nom 1290)
1300	1.5	TIJJH	Costa Rica	R. Alajuela, Alajuela
	1	CMJQ	Cuba	R. Nuevitas, Nuevitas (v)
	0.5	HIKQ	Dom. Rep.	R. Radio, Santo Domingo
	1	YSHX	El Salv.	El Sonido de la Música, Cuscatancingo
	5	TGAR	Guatemala	R. Quetzal, Guatemala
	1	HRXX	Honduras	R. Lima, La Lima
	3	YNRA	Nicaragua	La Voz de Chinandega
	1	WTIL	Puerto Rico	R. Util, Mayagüez
1310	0.25	CMDO	Cuba	CMKC Cad. Prov. de Oriente, Banas
	1	HISD	Dom. Rep.	R. TV Dominicana, El Seibo (rel 620)
	0.5	HIAV	Dom. Rep.	R. Bani, Bani
	1	TGAN	Guatemala	La Voz de los Altos, Quezaltenango
	50		Martininque	Fort-de-France
	2	YNP	Nicaragua	R. Circuito, Managua
1320	0.25	CMAL	Cuba	R. Reloj Nacional, P. del Rio
	5/1	WUNO	Puerto Rico	R. Uno, Rio Piedras
1325	1	TIJJG	Costa Rica	Columbia Canal 3, Liberia
	1.5	4VW	Haiti	R. Haiti, Port-au-Prince (nom 1330)
	1	PJA10	Neth. Ant.	Voice of Aruba, Oranjestad, Aruba
1330	1	HIDB	Dom. Rep.	R. Libertad, Santiago
	10	YSHQ	El Salv.	R. Progreso, San Salvador
	10	TGMU	Guatemala	Unión Radio, Guatemala
	1	HOM92	Panama	Canal 13, Panama
1335	1	HRH6	Honduras	R. El Mundo, San Pedro Sula (nom 1340)
1340	0.25	CMGU	Cuba	R. Reloj Nacional, Colón
	1			AFRTS, Guantanamo Bay
	1	HIBZ	Dom. Rep.	R. Centro, San Juan de la Maguana
	0.5	HIMP		R. Ocoa, San José de Ocoa
	1	YSXW	El Salv.	R. San Miguel, San Miguel (v)
	0.5	YNDM	Nicaragua	Ondas Sonoras, Managua
	0.25	WGRF	Puerto Rico	Noroeste Broadc Corp, Aguadilla

kHz	kW	Call	Country	Station/Location
1340	0.25	WSTA	American Virg. Isl.	R. St. WSTA, St. Thomas
1350	1	TIJRA	Costa Rica	R. Sideral, San Ramón
	0.25	CMKY	Cuba	R. Pto. Padre, Pto. Padre
	0.5	HIXZ	Dom. Rep.	R. Triunfo, Sto. Domingo
	2	YNRM	Nicaragua	R. Alma Latina, Estelí
1354	1	HRME	Honduras	R. El Patio, La Ceiba (nom 1350)
1360	0.25	CMBG	Cuba	R. Popular, La Habana
	1	HISD	Dom. Rep.	R. TV Dominicana, La Vega (rel 620)
	1	HIMG		R. Rutas, La Romana
	10	TGLK	Guatemala	R. Tic Tac, Guatemala
	0.25	YNGF	Nicaragua	Ondas del Sur, Jinotepe
	0.25	HOG53	Panama	La Voz de los Cumbres, Chilibre
1370	1	HISD	Dom. Rep.	R. TV Dominicana, Barahona (rel. 620)
	0.5	YSMQ	El Salv.	La Voz de las Colinas, Nueva Salvador
	0.5	TGAC	Guatemala	R. Cultural de Colomba, Colomba
	1	HOQ38	Panama	R. Colosal, David
	1	WIVV	Puerto Rico	Calvary Baptist Mission, Vieques Island
1375	1	TIMAR	Costa Rica	Monumental, Limón
1380	5		Dom. Rep.	R. Nacional, Santiago
	1	HRVS	Honduras	La Voz Evangelica, Tegucigalpa
	0.25	HP6J	Panama	La Voz de Panama, Panama
	1	TGMG	Guatemala	R. Nacional, Pto. Matias de Gálvez
1385	1	4VS	Haiti	R. Port-au-Prince, (nom. 1380)
	1	PJB2	Neth. Ant.	Voice of Bonaire
1390	0.25	CMKX	Cuba	R. Bayamo, Bayamo (v)
	5	TGYC	Guatemala	R. Istmania, Guatemala
	1	HRFS	Honduras	R. Primero de Mayo, Tela
	1	HOL	Panama	R. Atlántico, Colón
	1/0.5	WISA	Puerto Rico	R. Noroeste, Isabla
1400	1	TILG	Costa Rica	R. Cariari, Pto. Limón
	1	HIAL	Dom. Rep.	Ondas del Valle, La Vega
	1	HISD		R. TV Dominicana, San Juan
	1.5	YSJI	El Salv.	La Voz del Litoral, Usulután
	1	HRPI	Honduras	El Eco de Honduras, San Pedro Sula
	1	YNX	Nicaragua	R. Equis, Chichigalpa (rel. 750)
	1	WVOZ	Puerto Rico	R. Voz, Carolina
1410	1	HIAE	Dom. Rep.	R. Tricolor, Sto. Domingo
	1	TGGH	Guatemala	R. Xelaju, Quezaltenango
	1	YNMS	Nicaragua	Ondas Populares, León
1410	1	HORS	Panama	R. Selecta, Panama
1420	0.25	CMKZ	Cuba	R. Palma, Palma Sorriano
	4		Guadeloupe	Basse-Terre (Citerne)
	1	TGRP	Guatemala	R. Dial Catorce, Guatemala
	1	HROW	Honduras	R. Trópico, Tela
	1	ACB20	Canal Zone	Southern Command Net, Ft. Davis (rel. 790)
	1	WEUC	Puerto Rico	Emisora de la Univ. Católica, Ponc
1425	1	TICJ	Costa Rica	R. Sinai, San Isidro del General
1430	0.25	CMDX	Cuba	R. Baracoa, Baracoa
	1	HIVG	Dom. Rep.	R. Momento, La Vega
	0.5	YSHF	El Salv.	R. Caribe, Cojutepeque
	1	TGAG	Guatemala	La Voz de Huehuetenango
	1	4VGM	Haiti	Magloire Bradc Circuit, Port-au-Prince (v)
	10	YNAJ	Nicaragua	La Voz de América, Managua
	5/0.5	WNEL	Puerto Rico	Atlantic Broadc Corp, Caguas
1435	1	PJA5	Neth. Ant.	R. Kelkboom, Oranjestad, Aruba
1440	1	HIAD	Dom. Rep.	R. San Juan, San Juan de la Maguana
	1	HIFS		R. Bahia, Nagua
	0.5	HIAK		R. Progreso, Sto. Domingo
	1	HRXA	Honduras	Unión Radio, Tegucigalpa
1442	0.25	HOC	Panama	Cadena Panameña de Radiodifusion, Colón (nom. 1440)
	1	TIMMC	Costa Rica	R. Golfito, Pto. Golfito (nom. 1450)
1445	1	HIRD	Dom. Rep.	La Voz del Caribe, San Pedro de Macorís
1450	0.5	HIAC	Dom. Rep.	Ondas del Cibao, Salcedo
	0.5	HIAR		R. San Cristóbal, San Cristóbal
	1	HIHG		R. Beler, Dajabón
	1	TGMS	Guatemala	R. Nacional, Mazatenango
	1	TGLG		R. Variedades, Guatemala
	1	YNDN	Nicaragua	R. Vanguardia, Managua
	1/0.25	WCPR	Puerto Rico	R. Coamo, Coamo
1456	0.25	HOD42	Panama	La Voz de Almirante Almirante (nom. 1460)
1460	0.25	CMCG	Cuba	R. Mariano, Mariano
	0.5	HIAN	Dom. Rep.	R. Maguá, Hato Mayor
	1	TGRN	Guatemala	R. Petén, Flores Petén
	0.15	4VCP	Haiti	La Voix de Nord, Cap-Haitien (v)
	0.3	YNTJ	Nicaragua	R. Ecos de las Brumas, Jinotega
	0.5	WFBA	Puerto Rico	R. Pepino, San Sebastian
1462	5	TIDVC	Costa Rica	Monumental, Giudad Quesada (nom. 1475)
1465	0.5	HIAG	Dom. Rep.	R. Azul, Santiago (nom. 1470)

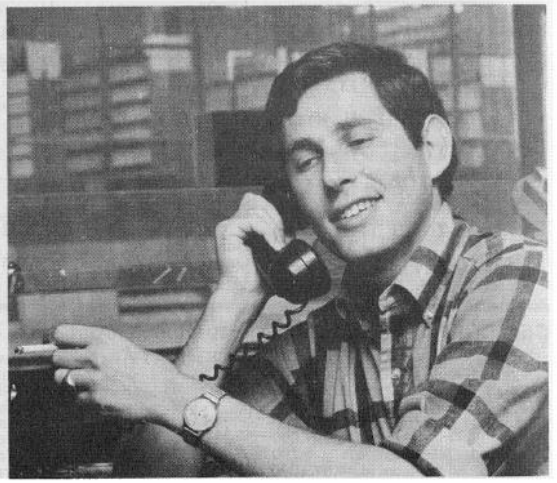
SET COUNT BY COUNTRY—continued from page 310

Country	Po.	R. Rcvrs.	TV Rcvrs.
*Trinidad and Tobago	1.022.400	235.000	42.000
Togo	1.791.300	40.000	—
Tonga	77.650	6.250	—
Trust Territory (Pacific)	93.000	6.000	1.400
Tunisia	4.693.000	386.000	38.000
Turk and Caicos Islands	6.770	1.200	—
Turkey	34.375.000	2.938.225	35.000
*Uganda	7.936.000	250.000	10.000
U.A.R. (Egypt)	31.250.000	4.275.000	550.000
United States	202.500.000	275.000.000	81.000.000
Upper Volta	5.055.000	80.700	5.000
*Uruguay	2.855.000	1.080.000	220.000
USSR	238.000.000	88.000.000	20.000.000
Vatican State	1.000	—	—
*Venezuela	9.600.000	1.685.000	700.000
Vietnam (Rep.)	16.973.000	405.000	—
Vietnam (Dem. Rep.)	20.100.000	500.000	—
*Virgin Islands (Am.)	60.000	32.000	15.500
*Virgin Islands (Br.)	6.500	5.000	—
*Windward Islands	372.000	60.000	—
Yugoslavia	20.225.000	3.232.394	1.447.845
Zambia	3.949.000	55.000	20.000

kHz	kW	Call	Country	Station/Location
1470	0.25	CMGE	Cuba	R. Ci. Bandera, Cárdenas
	2	YSON	El Salv.	R. Cristal, San Salvador
	1	HOOH	Panama	R. Libre, Panama
1475	2	YNAG	Nicaragua	R. Cosiguina, Chinandega
1480	o.5	HIAH	Dom. Rep.	R. Sensacional, Sto. Domingo
	1	TGIZ	Guatemala	La Voz de la Marimba, Guatemala
	1	HROC	Honduras	R. Bahia, Roatán
	5	WMDD	Puerto Rico	La Voz del Oriente, Fajardo
1489	2	TICA	Costa Rica	Columbia Canal 2, Puntarenas
1490	0.25	HIKF	Dom. Rep.	R. Azua, Azua
	0.25	HIAP		R. Gabino, Moca
	1	TGCO	Guatemala	La Voz del Trópico, Cotopeque
	1	TGHU		Circuito TGHU, Antigua
	0.25	HOR43	Panama	R. Exito, La Chorrera
1500	1	TIL3	Costa Rica	Columbia Canal 3, Liberia
	0.5	HIJX	Dom. Rep.	R. Zamba, Santiago Rodriguez
		4VOC	Haiti	R. Select, Port-au-Prince
	0.195	4VWB		R. Citadelle, Cap-Haitien
	1	HRMH	Honduras	La Voz del Jnco, Sta. Barbara
	1	PJC7	Neth. Ant.	R. Hoyer, Willemstad, Curacao (v)
	1.5	YNPT	Nicaragua	R. Tierra Pinolera, Managua
	1	HON	Panama	R. Aeropuerto, Colón (v)
	1/0.25	WMNT	Puerto Rico	R. Atenas, Manatí
1505			Leew. Isl.	BFBS, Anguilla (v)
	1	HOA95	Panama	Cabina 95, Panama
1510	1	HIPS	Dom. Rep.	R. Nagua, Nagua
	1	TGDZ	Guatemala	R. Centroamericana, Guatemala
1515	1	YNCZ	Nicaragua	R. Progreso, León
1520	1	CMKT	Cuba	Circuito CMKT, Victoria de las Tunas
	1	HIBL	Dom. Rep.	R. Pueblo, Santo Domingo (v 1515-1530)
	1	HOR20	Panama	R. Coclé, Penonomé
	10	WRAI	Puerto Rico	R. Aeropuerto Internacional, San Juan
1525	10	TIEEAW	Costa Rica	R. Turrialba, Turrialba
	2	HIJC	Dom. Rep.	R. Maybá, Santiago
1530	1/0.25	WUPR	Puerto Rico	R. U.P.R., Utuado
1535	0.025		Windw. Isl.	W.I.B.S., Chateaubelair, St. Vincent
1540	10	ZNS	Bahamas	Nassau
	1	TGRF	Guatemala	R. Faro Aviateca, Guatemala
	1	PJL3	Neth. Ant.	R. Caribe, Willemstad, Curacao
	1	HOE28	Panama	R. TNT, Panama
1550	1	TICCR	Costa Rica	R. Cima, Ci. Quesada
	2	TIMET		R. Meteorológico, San José
	0.25	CMDV	Cuba	R. CMDV, Santiago
	0.25	WKFE	Puerto Rico	R. Café, Yauco
1560	1/0.25	HIFB	Dom. Rep.	R. El Mundo, de Los Minas, Santo Domingo
	0.25	YNPR	Nicaragua	R. Existos, Managua
	5/0.25	WRSJ	Puerto Rico	R. San Juan, San Juan
1565	0.25		Windw. Isl.	W.I.B.S., Castries, Santa Lucia
1566	0.25	CMGB	Cuba	R. Reloj Nacional, Cardenas (v) (nom. 1560)
1570	1	TGVE	Guatemala	La Voz Evangelica, Guatemala
	0.1	HOE35	Panama	R. Once, Colón
1575	1	TIJJC	Costa Rica	Columbia Canal 2, Palmares
1580	0.5	HIWJ	Dom. Rep.	R. Samaná, Samaná (v)
	3	YNE	Nicaragua	R. Uno, Managua
1590	0.25	CMDF	Cuba	R. Guacanayabo, Manzanillo
	1	HIAJ	Dom. Rep.	R. Unión, Sto. Domingo
	1	YNAW	Nicaragua	R. Colinas, Jinotega
	1	WXRF	Puerto Rico	Guayama Broadc. Co, Guayama
1600	1	TI	Costa Rica	R. Continental, San Ramón
	1	TIACA		La Voz de Costa Rica, San José
	1	HIBS	Dom. Rep.	R. San Pedro, San Pedro de Macorís
	1	HIDA		R. Hit Musical, Santiago
	10	TGWA	Guatemala	La Voz de Guatemala
	1	WLUZ	Puerto Rico	R. Luz, Bayamón



Edward Startz, producer of The Happy Station show for more than forty years.



Tom Meyer, successor to Edward Startz as producer of The Happy Station show.

SOUTH AMERICA

kHz	kW	Call	Country	Station/Location
536	5		Falkland Islands	Falkland Isl. Broadc. Sce, Stanley
540	25/5	LRA14	Argentina	R. Nacional Santa Fé
	10	ZYR98	Brazil	R. Nove de Julho, São Paulo
	1			R. Tambaú, João Pessôa
	1	CB54	Chile	R. Ignacio Serrano, Melipilla
	1	CD54		R. Sur, Valdivis
	10	HJKA	Colombia	Em. Horizonte, Bogotá
	10	HCFG2	Ecuador	R. Tropicana, Guayaquil
	5	OAX3X	Peru	La Voz de la Costa, Chimbote
550	10	ZYZ22	Brazil	R. Eldorado, Rio
	5	HCDG1	Ecuador	R. Ecuatoriana, Quito
	4.5	CW1	Uruguay	R. Colonia, Colonia
	10	YVKE	Venezuela	R. Cultura, Caracas
560	10/3	LRA13	Argentina	R. Nacional, Bahia Blanca
	10/3	LV1		R. Colón, San Juan
	5/3	LT15		R. del Litoral, Concordia
	5	ZYN41	Brazil	R. Jornal de Itabuna
	10	ZYM5		R. Soc. Guairacá, Curitiba
	1/0.25	ZYN4		R. Soc. de Passos
	10	HJGS	Colombia	Transm. de la Independencia, Tunja
	10	HCRM2	Ecuador	R. Mambo, Guayaquil
	0.25	ZP15	Paraguay	La Voz de Amambay, Pedro Juan Caballero
	1	OBZ4L	Peru	La Voz del Oriente, Lima (Chinese prgr)
570	50	CB57	Chile	R. Soc. Nac. de Agricultura, Santiago
	100	HJND	Colombia	R. Nacional, Bogotá
	1	HCRM1	Ecuador	R. Musical, Quito
	1	HC . .		R. Musical, Cuenca
	1	OAX3K	Peru	R. Progreso, Chimbote
	1	OAX5F		R. Constelación, Ica
	100	YVLX	Venezuela	R. Rumbos, Caracas
580	35	LW1	Argentina	R. Univ. de Córdoba
	15	LU20		R. Chubut, Trelew
	10	CP91	Bolivia	R. Panamericana, La Paz
	1		Brazil	R. Repórter, Recife.
	1	ZYM3		R. Cataguazes, Cataguazes
	1/0.5	PRG5		R. Atlántica de Santos
	1/0.5	ZYD4		R. Londrina, Londrina
	1/0.5	ZYM25		R. Dif. Brasileira, Prata
	10/5	ZYW27		R. Dif. de Goiânia
	0.5	CX58	Uruguay	R. Clarin, Montevideo
	10	YVMJ	Venezuela	La Voz de la Fé, Maracaibo
590	25/5	LV12	Argentina	R. Independencia, Tucumán
	25/5	LS4		R. Continental, Buenos Aires
	25/5	LU8		R. Bariloche, San Carlos de Bariloche
	10	ZYN38	Brazil	R. Cruzeiro de Bahia, Salvador
	1	ZYZ21		R. Relógio Federal, Rio
	5	ZYS50		R. Dif. Ouro Verde, Curitiba
	1	CA59	Chile	R. Mineria, Antofagasta
	1	CC59		R. Condor, Concepción
	10	HJCR	Colombia	R. Sutatenza, Medellín
	50	OCY4K	Peru	R. OCY4K, Lima
	20	YVKL	Venezuela	R. Continente, Caracas
595	1	HCSP1	Ecuador	R. Minutera, Quito
600	50	PRH2	Brazil	R. Farrouphilha, Porto Alegre
	25	HJHJ	Colombia	R. Libertad, Barranquilla
	0.5	HCRL6	Ecuador	R. Libertador, Saquisili
	10		Surinam	R. Paramaribo
	10	YVQB	Venezeula	R. Sucre, Cumaná
610	25	HJKL	Colombia	Emis. Nueva Granada, Bogotá (Monserrate)
	5	CX4	Uruguay	R. Rural, Montevideo
	10	YVNO	Venezuela	R. Libertad, Cabimas
620	5	LRA12	Argentina	R. Nacional, Santo Tomé
	5	LRA10		R. Nacional, Ushuaia
	5/1.5	LV14		R. Joaquín V. González, La Rioja
620	5	LU15		R. Viedma, Viedma
	1	CP63	Bolivia	R. San Gabriel, La Paz
	10	ZYH35	Brazil	R. Assuncão Cearense, Fortaleza
	10/5	PRH7		R. Panamericana, São Paulo
	1	CA62	Chile	R. Norte Verde, Ovalle
	10	CC62		Nueva R. El Sur, Concepción
	10	HJEL	Colombia	R. Tricolor, Cali.
	1	OAX5T	Peru	R. La Voz de Huamanga
	0.4	OAX2M		R. Chepén, Chepén
	10	YVSE	Venezuela	R. Cristal, Barquisimeto
625	1	HCRF4	Ecuador	Canal Manabita, Portoviejo
	0.3	HCRF3		R. Fenix, Zaruma
630	20/4	LS5	Argentina	R. Buenos Aires
	1	PRJ6	Brazil	R. Dif. de Sergipe, Aracajú
	5	ZYV29		R. Itatiaia, Belo Horizonte
	1	ZYV44		R. Dif. de Uberaba
	1	ZYU37		R. Santamariense, Santa Maria
	10	ZYX25		R. Bom Jesus, Cuiabá
	1	ZYA3		R. Dif. Cambará
	0.1	CA63	Chile	R. Chañaral, Chañaral
	1	CB63		R. I.E.M., Santiago
	1	CB63B		R. Pres. Prieto, Valparaiso
		CC63		R. Constitución
		CD63		R. CD63, Angol
	20	HJFD	Colombia	R. Manizales, Manizales
	10	YVKA	Venezuela	R. Nacional, Caracas
	10	YVSL		R. Nacional, San Cristóbal
640	5/1	LV15	Argentina	R. Villa Mercedes
	25/10	LU4		R. Patagonia Argentina, Comodoro Rivadavia
	10	ZYI22	Brazil	R. Cabugi, Natal
	1/0.5	ZYR219		R. A Voz da Araraquarense, Araraquara
	30	ZYH89		R. Dif. Portoalegrense, Pôrto Alegre
	1	PRG6		R. Soc. Mantiquera, Cruzeiro
	10			R. Educ. de Brasília
	1	CA64	Chile	R. Esmeralda, Iquique
	10	CD64		R. Cooperativa, Temuco
	10	HJBJ	Colombia	La Voz de Sta Marta
	10	HCXY1	Ecuador	R. Nacional del Ecuador, Quito
	1	ZP16	Paraguay	R. Pres. Stroessner, P to Pres. Stroessner
	10	OAZ4K	Peru	R. del Pacifico, Lima
	1	OBX7B		Onda Azul, Puno
	10	YVQO	Venezuela	Ondas Porteñas, Puerto La Cruz
650	10	HJJX	Colombia	Emis. Monserrate, Bogotá
	1	HCRM4	Ecuador	R. Visión, Manta
	1	OAX2N	Peru	Ondas del Norte, Trujillo
	1	OAX5R		R. Regionalista, Ica
	50	CX6	Uruguay	S.O.D.R.E, Montevideo
	50	YVLH	Venezuela	R. Giradot, Maracay
655	1		Surinam	RADIKA, Paramaribo (v)
660	50	CB66	Chile	Nueva R. Chilena, Santiago
	10	HJJM	Colombia	R. Uno, Cali
	10	YVNA	Venezuela	Ondas de los Médanos, Coros
665	0.45	HCFM2	Ecuador	R. Ventanas, Ventanas
670	25/5	LU9	Argentina	Emis. Mar del Plata
	10/5	ZYM22	Brazil	R. Cultura de Sergipe, Aracajú
	10	ZYR56		R. Excelsior, São Paulo
	3/1			R. São Francisco, Anápolis
	10	HJNX	Colomoia	R. Tricolor, Medellín (v)
	1	HCSJ1	Ecuador	R. Xavier, Quito
	1	OBX4A	Peru	R. Universal, Callao
	50	YVLL	Venezuela	R. Rumbos, Caracas
675	10	HCAV2	Ecuador	R. Atalaya, Guayaquil

kHz	kW	Call	Country	Station/Location
675	10	HCVP2		R. Luz y Vida, Loja
680	25/5	LU12	Argentina	R. Rio Gallegos
	25/30	LV6		R. Nihuil, Mendoza
	5	CP34	Bolivia	R. Méndez, La Paz
	5	ZYP20	Brazil	R. Copacabana, Rio
	1	ZYK26		R. Dif. de Limoeiro
	1	ZYS65		R. Dif. de Ponta Grossa
	5	ZYF24		R. Dif. do Maranhão, São Luiz
	10	PRC2		R. Gaúcha, Porto Alegre
	1	ZYR255		R. Colorado, Ribeirão Preto
	5	ZYD7		R. Soc. Norte de Minas, Monte Claros
	10	CC68	Chile	R. Univ. de Concepción
	10	HJAQ	Colombia	R. Miramar, Cartagena
	0.2	HCWC1	Ecuador	R. Cristóbal Colón, Pinampiro
	5	OBX1S	Peru	La Voz de Tumbes
	1	OAX5E		R. Independencia, Ica
	5	CW77	Uruguay	R. Tabaré, Salto
	10	YVQF	Venezuela	R. Bolívar, Ci Bolívar
690	5	LRA9	Argentina	R. Nacional, Esquel
	10/5	LRA4		R. Nacional, Salta
	10	ZYH29	Brazil	R. Dragão do Mar, Fortaleza
	1	ZYL22		R. Educ. Palmares de Alagoas, Maceió
	10	PRC7		R. Mineira, Belo Horizonte
	1	ZYH63		R. Clube de Lajes
	10	CB69	Chile	R. Santiago (v)
	10	HJCZ	Colombia	La Voz de Colombia, Bogotá
	0.4	OAZ4F	Peru	R. La Oroya, La Oroya
	1	OAX3F		R. Chimbote, Chimbote
	10/5	CX8	Uruguay	R. Sarandí, Montevideo
	50	VYMR	Venezuela	R. Barquisimeto
695	1.75	HCRS2	Ecuador	R. Sucre, Guayaquil
700	50	ZYR213	Brazil	R. Eldorado, São Paulo
	125	HJCX	Colombia	R. Sutatenza, Cali
	30	HCJB1	Ecuador	La Voz de los Andes, Quito
	10	ZP12	Paraguay	R. Carlos Antonio López, Pilar
	1	OBZ4H	Peru	R. Progreso, San Miguel
	10	YVMH	Venezuela	R. Popular, Maracaibo
710	100	LS1	Argentina	R. Municipal, Buenos Aires
	10	HJFT	Colombia	Ecos del Combeima, Ibagué
	10	OBX1P	Peru	R. San Juan, Piura
	5	YVKY	Venezuela	La Voz de la Patria, Caracas
715	1.3	HCAP4	Ecuador	La Voz de Portoviejo
	1	HCAM4		La Voz del Valle, Portoviejo
720	20/5	LV10	Argentina	R. de Cuyo, Mendoza
	50	ZYU58	Brazil	R. Guaiba, Porto Alegre
	25	PRA8		R. Clube do Pernambuco, Recife
	1			R. Cultura, Belo Horizonte
	1	ZYV70		R. Bela Vista, Überlândia
	1	ZYA8		R. Dif. Taubaté
	10	HJAN	Colombia	Emis. Unidas, Barranquilla
	0.4	HCIC1	Ecuador	R. Municipal, Quito
	5	OCY4M	Peru	La Voz de la Sierra, Huancayo
	10	YVQR	Venezuela	R. Cumaná, Cumaná
725	50	SRS	Surinam	Stichting R. Omroep Suriname, Paramaribo (v)
730	20/5	LRA3	Argentina	R. Nacional, Sta. Rosa
	5	LU14		R. Prov. de Santa Cruz, Rio Gallegos
	5/1	LW7		R. Catamarca, Catamarca
	10	CP27	Bolivia	R. La Cruz del Sur, La Paz
	5	ZYK40	Brazil	A Voz do São Francisco, Petrolina
	1	ZYV53		R. Dif. Minas Gerais, Juiz de Fora
	1	ZYO21		R. Vitória, Vitória
	1/0.25	ZYO9		Soc. R. Tubá, Tubarao
	1			R. Nordeste, Macau
	2	ZYR80		R. Hora Certa, São Paulo
	0.5	ZYH8		R. Marumbi, Curitiba
	1	PRA7		R. Clube de Ribeirão Preto
730	10/5	CB73	Chile	La Voz de Chile, Valparaiso
		CD73		R. Mulchen, Mulchen
	10	HJCU	Colombia	R. Tricolor, Bogotá (v)
	10	HCMB2	Ecuador	R. Guayaquil, Guayaquil
	1	OBX4S	Peru	R. Sudamericana, Lima
	5/2.5	CX10	Uruguay	R. Ariel, Montevideo
	10	YVMT	Venezuela	R. Universo, Barquisimeto
735	0.25	HCSE4	Ecuador	R. Libertad, Chone
740	50	PRA4	Brazil	R. Soc. da Bahia, Salvador
	10	HJHB	Colombia	Ecos de Pasto, Pasto
	1	HCBG1	Ecuador	R. Melodía, Quito
	10	OAX6C	Peru	R. Continental, Arequipa
	10	YVNC	Venezuela	R. Maracaibo
750	50	LRA7	Argentina	R. Nacional, Córdoba
	50	HJDK	Colombia	La Voz de Antioquia, Medellín
	0.5	HCCT2	Ecuador	R. Centenario, Guayaquil
	0.25	OAX1B	Peru	R. Sudamericana, Piura
	1	OAX3T		R. Mundo, Chimbote
	10	YVKS	Venezuela	R. Caracas, Caracas
760	2	PRN9	Brazil	R. Dif. Departamento Segurança, Rio
	75	CB76	Chile	La Voz de Chile, Santiago
	10	HJAJ	Colombia	La Voz de Barranquilla
	5	HCRQ1	Ecuador	R. Quito, Quito
	10	ZFY	Guiana	R. Demerara, Georgetown
	25	ZP5	Paraguay	R. Encarnación
	10	OBZ4X	Peru	R. Los Andes, Lima
	10	YVQQ	Venezuela	R. Puerto La Cruz
770	30	HJKH	Colombia	R. Tequendama, Bogotá
	0.4	OBX7N	Peru	R. Ilave, Juliaca
	25	CX12	Uruguay	R. Oriental, Montevideo
	50	YVKK	Venezuela	R. Nacional, Valencia
775	1	HCMF2	Ecuador	R. La Prensa, Guayaquil
780	5	LRA8	Argentina	R. Nacional, Formosa
	10/5	LV8		R. Libertador, Mendoza
	0.25	CP46	Bolivia	R. Universo, La Paz
	0.25	CP108		R. Independencia, Quillacollo
	0.25	CP52		R. Potosí, Potosí
	20/10	PRL6	Brazil	R. Jornal do Comércio, Recife
	1	PRK8		R. Soc. Marconi, São Paulo
	1	ZYU71		R. Princesa de Jacuí, Pôrte Alegre
	5	ZYR79		R. Ribeirão Preto
	1/0.25	ZYV38		R. Educ. de Überlândia
	1	CB78	Chile	R. Caupolicán, Valparaiso
	1	CD78		R. La Frontera, Temuco
	10	CD78		R. Sago, Osorno
	30	HJZG	Colombia	R. El País
	0.3	HCRG4	Ecuador	R. Umiña, Manta
	10	OAX4X	Peru	R. Victoria, Lima
	10	YVOD	Venezuela	Ecos del Torbes, San Cristóbal
785	0.2	HCAA1	Ecuador	R. Noticia, Quito
790	50	LR6	Argentina	R. Mitre, Buenos Aires
	10	HJDC	Colombia	R. Quince, Medellín
	0.3	HCPT5	Ecuador	La Voz del Perpetuo Socorro, Cuenca
	5	OAX2I	Peru	C.R.U., Trujillo
	5	YVKC	Venezuela	R. dif Venezuela, Caracas
800	50	PRA2	Brazil	R. Ministerio da Educação, Rio
	10	HCDE2	Ecuador	R. Bolívar, Guayaquil
	1	OAX2V	Peru	R. OAX2V, Cajamarca
	0.5	OAZ4U		R. San Juan, Huaral
	1	OAX3Y		R. La Selva, Tingo María
	1	OCY4T		R. Progreso, Huancayo
	0.35	OBX6A		R. Porteña, Ilo
	0.5	OBX5B		R. Sur Medio, Ica
	0.5	OBZ4A		R. San Antonio, Cañete
807	1.2	HCFV1	Ecuador	Canal Tropical, Quito
810	125	HJCY	Colombia	R. Sutatenza, Bogotá
	0.2	HCVT2	Ecuador	R. Atalaya, El Milagro
	5	OAX8S	Peru	R. San José, Iquitos
	1	OBX1L		R. Start, Chiclayo
	25	CX14	Uruguay	R. El Espectador, Montevideo

kHz	kW	Call	Country	Station/Location
810	10	YVLP	Venezuela	R. Ochocientos Diez, Valencia
812	10	HJBW	Colombia	R. Atalaya, Bucaramanga (nom. 810)
820	20/3	LT16	Argentina	R. Presidencia, Presidencia Roque Sáenz Peña
	3	LU24		R. Tres Arroyos, Tres Arroyos
	1	CP35	Bolivia	R. Altiplano, La Paz
	10	ZYK37	Brazil	R. de Univ. de Recife
	1/0.25	ZYA4		R. Dif Paraisense, São Sebastião de Paraiso
	1/0.25	ZYT42		R. Nereu Ramos, Blumenau
	1	ZYR94		R. Universal, Santos
	1	ZYM6		R. Mirador, Rio do Sul
	0.25	CA82	Chile	R. Pampa, P. de Valdivia
	1	CB82		R. del Pacifico, Santiago
	1	CC82		R. Almirante Latorre, Talcahuano
	1	CD82		R. Concordia, La Unión
	50	HJED	Colombia	La Voz del Rio Cauca, Cali (Buga)
	1	OAX4O	Peru	R. Libertad, Lima
	1/0.5	CW23	Uruguay	R. Cultural, Salto
	10	YVSH	Venezuela	R. Guayana, Upata
825	1.5	HCEE1	Ecuador	R. Nacional Espejo, Sto. Domingo Cds.
	1.35	HCGB2		R. Nacional Espejo, Guayaquil
830	10/5	LT8	Argentina	R. Rosario, Rosario
	25/5	LV9		R. Güemes, Salta
	25/5	LRA17		R. Nacional, Zapala
	10	HJDM	Colombia	R. Visión, Medellín (v)
	1	OAX3S	Peru	R. Casma, Casma
	1	OAX5P		R. Pisco, Pisco
	10	YVLT	Venezuela	R. Miranda, Los Teques
835	1	HCCD1	Ecuador	R. Punto 83, Quito
840	5	LV4	Argentina	R. Splendid, San Rafael
	25/5	LU2		R. Bahia Blanca, Bahia Blanca
	10/5	LT12		R. General Madariaga, Paso de los Libres
	1.25	ZYV64	Brazil	R. Por Um Mundo Melhor, Gov. Valadares
	10/5	PRH9		R. Bandeirantes, Sao Paulo
	1	ZYT33		R. Rural, Concordia
	1	ZYU77		R. Cultura de Gravataí, Pôrto Alegre
	5	ZYW42		R. Jornal do Goiás, Goiânia
	1	ZYS89		R. Tabajara de Londrina, Londrina
	1			Emis. de Educação Rural, Caicó
	10/5	ZYD8		R. Excelsior da Bahia, Salvador
	1	CB84	Chile	R. Recreo, Viña del Mar
	10	CB84		R. Portales, Valparaiso
	1	CD84		R. Llaimá, Curacautín
	10	HJBI	Colombia	Ondas del Caribe, Santa Marta
	1	PZX7	Surinam	R. Apintie, Paramaribo
	10	YVMY	Venezuela	R. Juventud, Barquisimeto
845	0.8	HCET6	Ecuador	R. Tricolor, Ambato
850	50	HJKC	Colombia	Emis. Nuevo Mundo, Bogotá
	1	HCAJ2	Ecuador	La Voz del Santisimo, Guayaquil
	50	CX16	Uruguay	R. Carve, Montevideo
	10	YVLD	Venezuela	R. Valencia, Valencia
854	10	OAX4H	Peru	R. Nacional del Peru, Lima
860	50	PRA3	Brazil	R. Mundial, Rio
	10	HJEP	Colombia	Voces de Occidente, Buga
	1.2	HCFF1	Ecuador	R. Jesus del Gran Poder, Quito
	10	YVOL	Venezuela	R. Junin, San Cristóbal
865	0.4	HCOA7	Ecuador	R. 12 de Febrero, Puyo
870	100	LRA	Argentina	R. Nacional, Buenos Aires
	10	HJLA	Colombia	La Voz del Tolima, Ibagué
	5	HCNY2	Ecuador	R. Cristal, Guayaquil
870	0.5	HCBI2		R. Ecos del Agro, Quevedo
	1	OBX1F	Peru	C.R.U., Chiclayo
	0.25	OAZ4Y		R. La Montaña, Satipo
	5	YVKU	Venezuela	R. Libertador, Caracas
875	1	HCBO2	Ecuador	R. Espectáculo, Guayaquil
880	50	PRI3	Brazil	R. Inconfidencia, Belo Horizonte
	10	ZYU33		R. Itaí, Pôrte Alegre
	10	HJGE	Colombia	R. Bucaramanga
	0.5	HCRP1	Ecuador	R. Católica, Quito
	50	OBZ4N	Peru	R. Unión, Lima
	10	YVMP	Venezuela	R. Lara, Barquisimeto
890	20	ZYK20	Brazil	R. Tamandaré, Recife
	10/5	PRA6		R. Gazeta, São Paulo
	5			R. Alvorada de Londrina
	25/5	PRM3		R. Planalto, Brasilia
	5	CB89	Chile	R. Bulnes, Santiago
	1	CC89		R. Interamericana, Concepción
	1	CD89		R. Polar, Punta Arenas
	10	HJCE	Colombia	La Voz de Bogotá
	0.5	HCTL5	Ecuador	Ondas del Chimborazo, Riobamba
	10	OAX1D	Peru	R. Progreso, Piura
	10/5	CX18	Uruguay	R. Libertad Sport, Montevideo
	10	YVLW	Venezuela	R. América, Valencia
895	0.3	HCGC2	Ecuador	La Voz del Rio Guayas, Guayaquil
900	25	LT7	Argentina	R. Provincia de Corrientes, Corrientes
	5	LRA11		R. Nacional, Comodoro Rivadavia
	10/5	LV7		R. Tucumán, Tucumán
	0.25	CP20	Bolivia	R. El Condor, La Paz
	0.25	CP28		R. Cochabamba
	0.25	CP79		La Voz Nacional, Tarija
	1/0.25	ZYR242	Brazil	R. Cultura, São José do Rio Prêto
	10	ZYI23		R. Nordeste, Natal
	10	PRB7		R. Tamoio, Rio
	1/0.25	ZYQ5		R. Dif. Bento Gonçalves, Bento Gonçalves
	1	ZYS77		R. Emis. Santana, Ponta Grossa
	1	CC90	Chile	R. Nuble, Chillán
		CA90		R. Universidad Técnica del Estado, Copiapó
	10	HJEY	Colombia	La Voz de Cali, Cali
	1.2	HCRJ1	Ecuador	R. Gemas, Quito
	3	HCEV5		R. Splendid, Cuenca
	1.5	ZP7	Paraguay	R. Guarani, Asunción
	10	OBX4X	Peru	R. El Sol, Lima
	0.25	CW17	Uruguay	R. Frontera, Artigas
	10	YVMD	Venezuela	R. Mara, Maracaibo
910	50	LR4	Argentina	R. Splendid, Buenos Aires
	25	HJDO	Colombia	La Voz del Rio Grande, Medellín
	1	HCGR5	Ecuador	R. Mundial, Riobamba
	10	YVRQ	Venezuela	R. Aeropuerto, Maiquetia
914	0.2	HCRU3	Ecuador	Ondas Orenses, Machala
920	10	ZP1	Paraguay	R. Nacional, Asunción
	5	OBX1G	Peru	R. Heróica, Chiclayo
	1	OBZ4J		R. Bolognesi, Huancayo
	10	YVQX	Venezuela	R. Nueva Esparta, Porlamar
922	10	HJAE	Colombia	Emisoras Fuentes, Cartagena
925	0.3	HCVL2	Ecuador	R. Canal Central, Guayaquil
930	0.25	CP11	Bolivia	R. Amauta, La Paz
	0.25	CP112		R. Frontera, Yacuiba
	5	CP43		R. Pirai, Santa Cruz
	5	ZYM20	Brazil	R. Liberdade de Sergipe Aracajú
	5	PRJ3		R. Araguari, Araguari
	1/0.25	ZYU102		R. Aratiba, Aratiba
	1	ZYH3		R. Cultura de São Vicente, São Vicente
	5	ZYS25		R. Cultura do Paraná Curitiba
	10	CB93	Chile	R. Nuevo Mundo, Santiago
	10	HJCS	Colombia	R. Continental, Bogotá (v)

kHz	kW	Call	Country	Station/Location
930	0.3	HCIM1	Ecuador	La Voz de Imbabura, Ibarra
	50	OAX4E	Peru	R. Central, Lima
	18	CX20	Uruguay	R. Monte Carlo, Montevideo
	10	YVLJ	Venezuela	R. Maracay, Maracay
935	0.5	HCUE5	Ecuador	R. Unión Evangélica Misionera, Colta
940	50	PRF4	Brazil	R. Jornal do Brasil, Rio
	10	HJGB	Colombia	R. Eco, Cali
	0.5	OBX7L	Peru	R. Wilcamayo, Sicuani
	10	YVNN	Venezuela	R. Punto Fijo
945	1	HCDE2	Ecuador	R. Ifesa, Guayaquil
950	100	LR3	Argentina	R. Belgrano, Buenos Aires
	10	HJFN	Colombia	La Voz del Café, Pereira
	0.5	HCJM1	Ecuador	R. Un Mundo Mejor, Atuntaqui
	5	YVKG	Venezuela	Ondas Populares, Caracas
955	0.25	HCMC2	Ecuador	La Voz de Los Rios, Babahoyo
	1.5	HCJX6		R. La Voz de Agoyan, Baños
960	20/5	LRA6	Argentina	R. Nacional, Mendoza
	25/5	LW8		R. Jujuy, Jujuy
	0.25	CP32	Bolivia	R. Santa Cruz
	0.25	CP93		R. Kollasuyo, Potosí
	10	ZYO4	Brazil	R. Dif. de Alagoas, Maceió
	10	PRF4		R. Dif. de São Paulo
	1/0.25	ZYF5		R. Passo Fundo
	5/1			R. Atalaia, Belo Horizonte
	10	CB96	Chile	R. Carrera, Santiago
		CD96		R. Nielol, Temuco
	10	HJHN	Colombia	R. Sutatenza, Barranquilla
	1	HCNC1	Ecuador	R. Cosmopolita, Quito (v)
	20	OAX4D	Peru	R. Panamericana, Lima
	10	YVRB	Venezuela	R. Monagas, Maturín
	20	YVSS		R. San Sebastian, San Cristóbal
965	2	HCOT1	Ecuador	R. Zaracay, Sto Domingo de los Cds
970	25/5	LV2	Argentina	R. La Voz de la Libertad, Córdoba
	5	ZYC33	Brazil	R. Soc. Feira de Santana
	1	ZYI26		R. Brejuí, Currais Novos
	5	ZYI2		R. Imembuí. Sánta Maria
	1	ZYH32		R. Educadora do Nordeste, Sobral
	1	ZYH21		R. Iracema de Juazeiro, Juazeiro do Norte
	1	ZYS72		R. Dif. de Maringá
	1	CA97	Chile	R. Calama, Calama
	1	CB97		R. Soc. Nacional de Agricultura, Valparaiso
	1	CC97		R. Lautaro, Talca
	1	CD97		R. Patagonia, Coyhaique
	10	HJCI	Colombia	La Voz de la Victor, Bogotá
	0.35	HCMB1	Ecuador	R. Continente, Ibarra
	5	ZP9	Paraguay	R. Comuneros, Asunción
	1	CX22	Uruguay	R. Universal, Montevideo
	10	YVLR	Venezuela	R. Central, Maracay
975	10	HCAW2	Ecuador	Ondas del Pacífico, Guayaquil
980	50	PRE8	Brazil	R. Nacional, Rio
	30	HJES	Colombia	R. El Sol, Cali
	0.5	HCJI5	Ecuador	R. El Prado, Riobamba
	0.4	OAX2F	Peru	R. La Hora, Trujillo
	10	YVND	Venezuela	R. Servicio, Maracaibo
	10	YVMQ		La Voz del Tigre
985	5	OBX4J	Peru	R. Expreso, Lima
990	50	LR5	Argentina	R. Excelsior, Buenos Aires
	10	HJDB	Colombia	La Voz de Medellín
	3	HCGH1	Ecuador	R. Tarqui, Quito
	1	OBZ4R	Peru	La Voz del Valle del Mantaro, Jauja
	10	YVRT	Venezuela	R. Tropical, Caracas
995	5	HCEW2	Ecuador	R. Suceso, Guayaquil
1000	50	PRB9	Brazil	R. Record, São Paulo
	1.5	HCRV5	Ecuador	R. Visión, Cuenca
1000	10	YVOB	Venezuela	La Voz del Táchira, San Cristóbal
	10	YVNM		R. Mil, Morón
1010	25/3	LT4	Argentina	R. Misiones, Posadas
	20/5	LV16		R. Rio Cuarto
	10/5	ZYN23	Brazil	R. Bahia, Salvador
	7.5	ZYT26		R. Diário da Manhã, Florianópolis
	2	PRB3		R. Soc. de Juiz de Fora
	1	ZYS42		R. Colombo do Paraná, Curitiba
	0.25	CA101	Chile	R. Coya, Maria Elena
	10	CB101		R. Magallanes, Santiago
	1	CD101		R. Llanquihue, Pto. Montt
	10	HJBN	Colombia	La Voz del Galeras, Pasto (v)
	10	HJCC		Emis. Mil Veinte, Bogota (v)
	0.7	HCRC4	Ecuador	R. Cenit, Manta
	50	OAX4U	Peru	R. América, Lima
	20	CX24	Uruguay	La Voz del Aire, Montevideo
	10	YVPC	Venezuela	R. Aragua, Cagua
1015	0.75	HCRS6	Ecuador	R. Surcos, Guaranda
1020	10/5	LT10	Argentina	R. Univ. del Litoral, Santa Fé
	10/5	LU21		R. Golfo San Jorge, Santa Cruz
	25	CP4	Bolivia	Emis. del Estado (R. Illimani), La Paz
	5	HJDQ	Colombia	Emis. Claridad, Medellín (v)
	10	HJDP		R. Colasal, Neiva
	0.6	HCLV1	Ecuador	R. El Sol, Quito
	5	ZP14	Paraguay	R. Nanduti, Asunción
	10	YVSF	Venezuela	R. Caripito, Caripito
	10	YVRS		R. Margarita, La Asunción
	10	YVMX		R. Calendario, Maracaibo
1025	10	HJER	Colombia	R. Pacífico, Cali (nom. 1030)
1027	0.25	HCTO5	Ecuador	La Voz del Pueblo, Riobamba
1030	25/5	LRA15	Argentina	R. Nacional, Tucumán
	25/5	LS10		R. Libertad, Buenos Aires
	10	ZYK27	Brazil	R. Olinda de Pernambuco, Recife, PE
	7.5	PRD8		R. Emis. Continental, Rio
	1/0.25	PRB8		R. Rio Prêto, São José do Rio Prêto
	1	CB103	Chile	R. Valentin Letelier, Valparaiso
	1	CD103A		R. La Frontera, Temuco
	1	CD103B		R. Chiloé, Castro
	10	HJFQ	Colombia	La Voz del Pueblo, Pereira
	1	HCRP2	Ecuador	R. Rocafuerte, Guayaquil
	10	OAX1S	Peru	R. OAX1S, Chiclayo
	0.25	OAX7N		La Voz del Altiplano, Puno
	1	OAX8A		R. Nacional del Perú, Iquitos
	10	YVQY	Venezuela	R. Guanare, Guanare
	1	YVTD		R. Valles del Tuy, Ocumare del Tuy
1032	5	HJDJ	Colombia	La Voz de los Libertadores, Duitama (nom. 1030)
1040	50	PRG2	Brazil	R. Tupan, São Paulo
	5	HJCJ	Colombia	R. Melodía, Bogotá
	5	HJAI		R. Quince, Barranquilla
	0.7	HCCW1	Ecuador	La Voz del Valle, Machachi
	10	OBX4O	Peru	R. Onda Popular, Lima (v)
	10	YVLB	Venezuela	La Voz de Carabobo, Valencia
	10	YVON	Venezuela	R. Los Andes, Mérida
1050	1	HJDR	Colombia	La Voz del Triunfo, Medellín
	1	HJNC		La Voz del Nevado, Ibagué
	2.5	HJNG		R. Palmira, Palmira
	20	CX26	Uruguay	S.O.D.R.E., Monivideo
	10	YVKZ	Benezuela	R. Nacional, Caracas
	1	YVNU		R. Caroní, San Félix

kHz	kW	Call	Country	Station/Location
1055	10	HJBB	Colombia	R. Valledupar (nom. 1050)
1060	10	PRD2	Brazil	R. Emis. Metropolitana, Rio de Janeiro
	100	CB106	Chile	R. Soc. Nac. de Mineria, Santiago
	10	HJFJ	Colombia	Transmisora Caldas, Manizales (v)
	1	HJGU		R. Bucarica, Bucaramanga
	0.7	HCAC6	Ecuador	Ecos del Pueblo, Saquisili
	1.5	ZP13	Paraguay	R. Boquerón, Alberdi
	1	OAX3U	Peru	R. Horizonte, Tingo Maria
	1	OBX5D		R. Andahuaylas
	1	OCY4D		R. Mil Sesenta, Lima
	1	YVLN	Venezuela	R. Guárico, San Juan de los Morros
	10	YVOE		R. San Cristóbal
	1	YV..		R. Zulia, Maracaibo
1065	1.5	HCRV3	Ecuador	R. El Oro, Machala
1070	110	LR1	Argentina	R. El Mundo, Buenos Aires
	10	HJAH	Colombia	Emis. Atlántico, Barranquilla
	10	HJCG		R. Santa Fé, Bogotá
	0.5	HCVP1	Ecuador	R. Libertad, Quito
	4		Fr. Guiana	O.R.T.F, Cayenne
	5	OAX2B	Peru	R. Trujillo, Trujillo
	0.25	OAX5A		R. Centinela, Nazca
	1	YVKW	Venezuela	Emis, Vargas, La Guaira
	1	YVPF		R. Betijoque, Betijoque
1075	0.5	HCGB6	Ecuador	R. Nac. Espejo, Ambato
1080	1	LU16	Argentina	R. Rio Negro, Villa Regina
	10	ZYE28	Brazil	R. Guajará, Belém
	1/0.5	ZYI28		Emis. de Educação, Rural, Mossoró
	1/0.25	ZYK22		R. Dif. de Caruarú
	1	ZYN24		R. Cultura, Feira de Santana
	1/0.25	ZYV47		R. Minas, Belo Horizonte
	1/0.25	ZYF41		R. Clube de Patos, Patos de Minas
	1/0.5	ZYE4		R. Soc. de Friburgo, Nova Friburgo
	1	PRD7		R. Clube de Sorocaba
	2/0.5	ZYU67		R. Dif. da Univ. do Rio Grande do Sul, Pôrto Alegre
	1/0.25	ZYX7		R. Teófilo Otoni
	5	ZYW38		R. Independência, Goiânia
	1/0.25	ZYR64		R. Piratininga de Votuporanga, Votuporanga
	1	CD108	Chile	R. Camilo Henriquez, Valdivia
	10	HJJB	Colombia	R. Musical, Cali
	10	HJAW		La Voz de Monteria
	5	HCFD2	Ecuador	R. Noticia, Guayaquil
	10	OAX4F	Peru	R. Oficial del Congreso del Perú, Lima
	5	OBX1D		R. San Miguel, Piura
	1	OAX7S		R. Salcantay, Cuzco
	1	OAX8N		R. Amazonas, Iquitos
	1	OAX9H		R. Marañón, Chachapoyas
	10	YVQJ	Venezuela	R. Barcelona, Barcelona
	10	YVOV		R. Perijá, Machiques
1082	10	HJDZ	Colombia	R. Reloj, Medellín (nom. 1070)
1085	1	HCAA4	Ecuador	R. Eco, Manta
1090	25/5	LV5	Argentina	R. Sarmiento, San Juan
	10	CP57	Bolivia	R. Progreso, La Paz
	10	ZYI25	Brazil	Emis. de Educação Rural, Natal
	1	ZYN25		R. Clube de Conquista, Vitória da Conquista
	1	ZYT9		R. Industrial de Juiz de Fora, Juiz de Fora
	0.5	ZYF7		R. Erechim, Erechim
	1	PRI2		R. Clube de Marília
	1/0.25	ZYT38		R. Colón, Joinville
	1	ZYR240		R. Cultura, Ribeirão Prêto
	1	CA109A	Chile	R. La Portada, Antofagasta
		CA109B		R. Occidente, La Serena
		CB109		R. Candelaria, Santiago
	1	CC109		R. Mineria, Talca
	1	CD109		R. Austral, Punta Arenas
1090	10	HJBC	Colombia	La Voz de Cúcuta, Cúcuta
	10	HJFM		La Voz de Armenia
	1	HJIH		La Voz del Oriente, Sogamoso
	0.35	HCMG1	Ecuador	R. Fantasia, Quito
	15	CX28	Uruguay	R. Imparcial, Montevideo
	10	YVPB	Venezuela	R. Yaracuy, San Felipe
1095	0.4	HCRR6	Ecuador	R. Ley, Latacunga
1100	50	PRG9	Brazil	R. Nacional, São Paulo
	1	ZYU50		R. Emis. de Nordeste, Flôres da Cunha
	1	HJAT	Colombia	R. Reloj, Barranquilla
	10	HJCN		R. Reloj, Bogotá
	1.5	HCRR5	Ecuador	R. Reloj, Cuenca
	0.3	HCEM4		R. Costa Azul, Portobiejo
	1	OAX3I	Peru	R. Tingo Maria
	1	OAZ4K		R. Musical, Barranca
	1	OCY4G		Sonorama R., El Tambo
	1	OBX7Z		R. Collao, Juliaca
	1	OAX5Z		R. Latinoamericana, Ica
	10	YVOP	Venezuela	R. Occidente, Tovar
1105	0.5	HCRP6	Ecuador	R. Pelileo, Pelileo
1110	20/5	LR2	Argentina	R. Argentina, Buenos Aires
	10	PRI4	Brazil	R. Tabajara, João Pessôa
	1	ZYV66		R. Planalto de Araguari, Araguari
	5	PRF7		R. Cultura de Campos
	1/0.25	ZYS67		R. Tapajóz, São José dos Pinhais
	1/0.25	ZYT25		R. Anita Garibaldi, Floriaanópolis
	1			R. Esmeralda de Minas Gerais, Belo Horizonte
	1	ZYS57		R. Paiquerê, Londrina
	2	CB111		R. Prat, Santiago
	0.1	CC111		R. El Roble, Parral
	10	HJDI	Colombia	R. Bolivariana, Medellin
	10	HJFZ		La Voz del Centro, El Espinal (v)
	1	HJEW		R. Relof, Cali
	1	HCEG1	Ecuador	R. Exito, Quito
	10	YVQT	Venezuela	R. Carúpano, Carúpano
1115	0.2	HCLA2	Ecuador	R. América, Guayaquil
1120	10/5	LU7	Argentina	R. General San Martín, Bahia Blanca
	10	ZYN20	Brazil	R. Cultura de Bahia, Salvador
	10			R. Emis. Continental, Pôrto Alegre
		CD112	Chile	R. General Merchant, Puerto Aysen
	10	HJKQ	Colombia	R. Tunja, Tunja
	5	HJGH		R. del Comercio, Bucaramanga (v)
	1	HCEB1	Ecuador	Ecos del Montufar, San Gabriel
	0.25	HCAO5		La Voz de Tomebamba, Cuenca
	0.3	HCGM7		R. Río Amazonas, Macuma
	20	OBX4A	Peru	R. Nacional del Perú, Lima
	10	OAX6D		R. Nacional del Perú, Tacna
	2.5	CW31	Uruguay	R. Salto, Salto
	10	YVMF	Venezuela	Ondas del Lago, Maracaibo
	1	YVPZ		R. Zaraza, Zaraza
1125	0.3	HCPV6	Ecuador	R. Centro, Ambato
	1	HC..1		La Voz de la Mitad del Mundo, Quito
1130	20/5	LU5	Argentina	R. Splendid, Neuquén
	25/5	LV11		R. del Norte, Santiago del Estero
	10	ZYE20	Brazil	R. Marajoára, Belém
	10	PRH8	Brazil	R. Mauá, Rio
	1	ZYI24		R. Tapuiô, Mossorô
	1	ZYK34		R. Relógio Musical, Recife (Paulista)
	1	ZYR67		R. Piratininga, Tupã
	1	ZYR217		R. Cometa, São Paulo
	1	ZYC28		R. Atalaia de Sergipe, Aracajú
	1/0.25	ZYT34		R. Dif. Vale do Itajai, Blumenau
	1	HJJC	Colombia	R. Cartago, Cartago

kHz	kW	Call	Country	Station/Location
1130	5	HJCO		R. Suramérica, Bogotá
	0.3	HCRT1	Ecuador	R. Tricolor, Mira
	1	HCFA4		La Voz de Manabi, Portoviejo
	2.5	OAX4N	Peru	R. Selecta, Lima
	1	OAZ4S		R. Chanchamayo, La Merced
	0.45	OAX7H		R. Puno, Puno
	10/5	CX30	Uruguay	R. Nacional, Montevideo
	1	YVPY	Venezuela	R. Amazonas, Pto. Ayacucho
	1	YVRU		R. Litoral, Naiguatá
1135	10	HJAC	Colombia	Emis. Rio-Mar, Barranquilla (nom. 1130)
1140	50	CB114	Chile	R. Corporación, Stgo
	1	HJDL	Colombia	R. Cristal, Medellín
	1	HJEV		La Voz del Valle, Cali
	5	HJNS		R. Guatapurí, Valledupar
	2	HJTR		R. Girardot, Girardot
	0.25	HCFB2	Ecuador	R. Cóndor, Guayaquil
	1	OCY4C	Peru	R. Centro, Huancayo
	0.5	OAX5W		R. Chinchaysuyo, Chincha Alta
	10	YVMU	Venezuela	R. Carorá, Carorá
	1	YVSM		R. Nacional, Mérida
1145	1.2	HCRG1	Ecuador	R. Nuevo Mundo, Quito
1150	25/5	LU6	Argentina	R. Atlántica, Mar del Plata
	25/5	LT5		R. Chaco, Resistencia
	1	HJBT	Colombia	R. Catatumbo, Ocaña
	1	HJFI		Pregones del Quindío, Armenia
	1	HJGJ		R. Sutatenza, Belencito
	5	HJNH		Ondas del Rio, Magangué (v)
	0.3	HCCZ5	Ecuador	La Voz de Riobamba
	10	OAX8D	Peru	R. Loreto, Iquitos
	10	YVMV	Venezuela	Ondas del Caribe, Punto Fijo
	1	YVQD		Ecos del Orinoco, Ciudad Bolivar
1155	5	HJAZ	Colombia	Emis. Sinú, Montería (nom. 1160)
	0.5	HCDW4	Ecuador	R. Cenit, Portoviejo
1160	10/5	LT3	Argentina	R. Cerealista, Rosario
	2	CP19	Bolivia	R. Aspiazu, La Paz
	0.25	CP25		R. Centenario, Sta. Cruz
	0.25	CP78		R. Tunari, Cochabamba
	0.25	CP98		R. Nuevo Mundo, Sucre
	1	ZYA5	Brazil	R. Dif. de Joinville
	1	ZYG25		R. Pioneira de Teresina Teresina
	1	PRF5		R. Cariri, Campina Grande
	10	PRI9		R. Espirito Santo, Vitória
	1/0.5	ZYH7		R. Presidente Wenceslau
	1	PRH3	Brazil	R. A Voz do Oeste, Cuiabá
	1	ZYS73		R. Clube de Londrina
	1	ZYS37		R. Pato Branco
	5	HJBL	Colombia	Ondas de Ciénaga Grande, Ciénaga
	10	HJCK		El Mundo en Bogotá
	5	HJZV		R. Las Lajas, Ipiales
	2	HCVR3	Ecuador	R. Via, Machala
	5	OAX4C	Peru	R. Once Sesenta, Lima
	1	OAX1K		R. Nacional del Perú, Tumbes
	0.3	OAX2C		R. Libertad, Trujillo
	0.5	OAX3B		R. Huaráz, Huaráz
	10	OAX7D		R. Nacional del Perú, Puno
	10	YVRR	Venezuela	R. Industrial, Guarenas
	10	YVSD		R. Turismo, Valera
1165	1	HCUE6	Ecuador	R. Runatacuyac, Quevedo
1170	1/0.25	ZYG35	Brazil	R. Cultura Caiari, Pôrto Velho
	1	ZYI20		R. Dif. de Mossoró
	5	PRC9		R. Educ. de Campinas
	1/0.25	ZYU38		R. Municipal, Passo Fundo
	1/0.25	ZYU72		R. Princesa do Jacuí, Candelária
	1/0.25			R. Nazareth, Belém
	1	HJDT	Colombia	R. Nutibara, Medellín
	1	HJJE		Emis. Villa de Céspedes, Tulúa
	0.25	HCVJ5	Ecuador	R. Central, Riobamba
	10/5	CX32	Uruguay	R. Sur, Montevideo
	10	YVQV	Venezuela	R. Acarigua, Acarigua
1175	0.4	HCEA5	Ecuador	Ecos del Azuay, Cuenca
1180	50	PRE3	Brazil	R. Globo, Rio
	50	CB118	Chile	R. Portales, Santiago
	1	HJFX	Colombia	La Voz del Ruiz, Manizales (v)
	10	HJGK		R. Santander, Bucaramanga
	0.5	HCLR1	Ecuador	R. Central, Quito
	10	YVMB	Venezuela	La Voz del Zulia, Maracaibo
	10	YVOR		R. Maturín, Maturín
1190	5	LR9	Argentina	R. Antártida, Buenos Aires
	10/5	LW3		R. Splendid, Tucumán (v)
	5	HJCT	Colombia	La Voz de la Costa, Barranquilla (v)
	10	HJCV		R. Cordillera, Bogotá
	1	HJDF		R. Tumaco, Tumaco
	1	HJEO		Ondas del Valle, Cartago
	0.3	HCBE2	Ecuador	R. Excelsior, Guayaquil
	10	OAX1E	Peru	R. Chiclayo, Chiclayo
	10	YVRE	Venezuela	R. Barinas, Barinas
1195	0.5	HCCS1	Ecuador	R. Turismo, Sangolqui
	0.25	HCRF6		R. El Sol, Pujili
1200	25/5	LU3	Argentina	R. del Sur, Bahía Blanca
	5/3	LT6		R. Genaro Berón de Astrada, Goya
	0.25	CP37	Bolivia	R. Santa Ana, Santa Ana
	1	CP67		R. Splendid, La Paz
	10	PRE9	Brazil	Ceará R. Clube, Fortaleza
	10	PRB6		R. Emis. de Piratininga, São Paulo
	1/0.25	ZYU91	Brazil	R. Pampa, Pôrto Alegre
	1	CA120	Chile	R. Blanco Encalada, Tocopilla
	1	CD120		R. Soc. Nac. de Agricultura, Los Angeles
	1	HJCD	Colombia	R. Nuevo Epoca, Fusagasugá
	1	HJIJ		R. Colibrí, Medellín
	1	HJNF		R. Mil Doscientos, Sultana del Valle, Cali
	1	HJHJ		Ondas del Atrato, Quibdó
	2	HCRM5	Ecuador	R. El Mercurio, Cuenca
	1.5	ZP11	Paraguay	R. Charitas, Asunción
	2.5	OAX4B	Peru	R. Lima, Lima
	0.3	OAX7B		R. Tahantisuyo, Cuzco
	0.5	OAX8M		R. Mariana, Iquitos
	1	CW33	Uruguay	Dif. Florida, Florida
	1	YVNH	Venezuela	Ondas del Escalante, Santa Bárbara del Zulia
	10	YVOZ		R. Tiempo, Caracas
1205	2	HJBX	Colombia	La Voz del Llano, Villavicencio (nom. 1200)
	0.3	HCRQ2	Ecuador	La Voz del Trópico, Quevedo
1210	25/5	LV3	Argentina	R. Córdoba, Córdoba
	1	ZYU46	Brazil	R. Dif. A Voz de Bagé, Bagé
	1/0.5	ZYK23		R. Dif. do Garanhuns
	1/0.5	ZYB2		R. Clube de Varginha
	1/0.5	ZYL9		R. Cachoeiro de Itapemirim
	1/0.5	PRG8		Baurú R. Clube, Baurú
	1/0.25	ZYU101		R. Dif. Sul Riograndense, Erechim
	10/5	PRL8	Brazil	R. Nac. de Brasília
	1	ZYZ9		R. Emis. Paranaense, Curitiba
	1	ZYX		R. Baré, Cuiabá
	1/0.5	ZYU210		R. São Miguel, Uruguaina
		CD121	Chile	R. Presidente Ibañez, Punta Arenas
	1	CB121		R. Univ. Técnica del Estado, Santiago
		CA121		R. Univ. Técnica, Antofagasta
	10	HJFF	Colombia	La Voz Amiga, Pereira
	0.4	HCCU1	Ecuador	R. Ecos, Quito
	1	OAX2Q	Peru	R. Universo, Trujillo
	2	CX34	Uruguay	R. Artigas, Montevideo
	1	YVMN	Venezuela	R. Coro, Coro
	10	YVOZ		La Voz de Anaco, Anaco
1213	20	HJBE	Colombia	R. Internacional, Cúcuta (nom. 1210)

kHz	kW	Call	Country	Station/Location
1215	0.2	HCSF5	Ecuador	R. Colegio San Felipe, Riobamba
1220	10	HJFV	Colombia	La Voz del Litoral, Barranquilla
	10	HJAV		R. Cordobesa, Montería (v)
	10	HJKR		R. Juventud, Bogotá
	2.5	HJNM		Emis. Cultural Bolivar, Ipiales
	0.25	HCBJ2	Ecuador	R. El Mundo, Guayaquil
	1	OAX5G	Peru	R. San Pedro de Grocio Prado, Chincha
	10	YVRD	Venezuela	La Voz de Apure, San Fernando de Apure
1225	0.6	HCJM6	Ecuador	R. Sira, Ambato
1230	15/5	LT2	Argentina	R. Splendid, Rosario
	10	HJFP	Colombia	R. Neiva, Neiva (v)
	5	HJIL		La Voz de las Américas, Medellín
		HJJQ		R. Unica, Tunja
	0.22	HCRI1	Ecuador	Centro Radiofónico de Imbabura, Ibarra
	1	OAX2T	Peru	R. Albújar, Guadalupe
	1	OBX4L		R. Luz, Lima
	0.4	OBZ4Y		R. Selecciones, Tarma
	0.5	OBX7J		R. Madre de Diós, Puerto Maldonado
	10	YVNT	Venezuela	R. Barlavento, Caucagua
	1	YVOH		R. Valera, Valera
1235	1	HJLK	Colombia	R. Calidad, Cali (nom. 1230)
	0.2	HCMV5	Ecuador	La Voz del Austro, Cuenca
1240	10	LU10	Argentina	R. Azul, Azul
	5	ZYB21	Brazil	R. Dif. do Amazonas, Manaus
	5/1	ZYK36		R. Capibaribe do Recife, Recife
	1	PRB5		R. Clube Hertz, Franca
	1/0.25	ZYR84		R. Presidente Prudente
	0.5			R. Independência, Guarabira
	1/0.5	ZYP4		R. Dif. Guarapuava
	1	ZYH90		R. Cultura de Joinville
	1/0.25	ZYU76		R. Tupancí, Pelotas
	1/0.5	ZYC4		R. Soc. Ubaense, Ubá
	1	CA124	Chile	R. del Salitre, Iquique
	1	CB124		R. Viña del Mar
	1	CC124		R. Talca, Talca
	5	HJFG	Colombia	La Voz del Comercio, Armenia
	5	HJGN		R. Barrancabermeja
	0.5	HCLA5	Ecuador	R. Riobamba, Riobamba
	2.5	CW35	Uruguay	R. Paysandú, Paysandú
	1	YVLQ	Venezuela	La Voz de la Victoria
1243	5	PRE6	Brazil	R. Alvorada de Brasília, Brasília (nom. 1240)
1245	1	HCAF1	Ecuador	R. Metropolitana, Quito
1250	5/2	LT17	Argentina	R. Provincia de Misiones, Posadas
	10/5	LV13		R. Granaderos Puntanos, San Luís
	25/5	LRA16		R. Nacional, La Quiaca
	1	CP14	Bolivia	Emis. Unidas, La Paz
	0.25	CP16		R. Los Andes, Tarija
	0.25	CP17		R. Sararenda, Camiri
	1	CP26		R. Amboro, Santa Cruz
	0.25	CP47		R. Cobija, Cobija
	0.25	CP53		R. Indoamérica, Potosí
	0.25	CP54		R. La Plata, Sucre
	0.25	CP65		R. Oruro, Oruro
	0.25	CP69		R. Nacional, Cochabamba
	0.25	CP100		R. Ibaré, Trinidad
	1	PRJ2	Brazil	R. Clube Pontagrossense, Ponta Grossa
	1	ZYO3		R. Chavantes, Ipameri
	1	ZYL4		R. Platina, Ituiutaba
	1	ZYY20		R. Dif. do Guaporé, Pôrto Velho
	1	CA125	Chile	R. La Serena, La Serena
	1	CB125		R. Andrés Bello, Stgo.
	1	CD125		R. Univ. Técnica del Estado, Valdivia
	1	HJAO	Colombia	Emis. A.B.C., Barranquilla (v)
	1	HJCA		R. Guadaira, Bogotá
1250	1	HJFM		La Voz de Corozal
	1	HJHZ	Colombia	Emis. Mariana, Pasto
	2.5	HJHS		R. Reloj, Cúcuta
	1	HCRB2	Ecuador	La Voz del Litoral, Guayaquil
	5	OAX4L	Peru	R. Miraflores, Lima
	1	OAX8P		R. Pucallpa, Pucallpa
	3.1	CX36	Uruguay	Broadc. Centenario, Montevideo
	1	YVML	Venezuela	R. Cabimas, Cabimas
	10	YVPZ		R. Puerto Ordaz
1255	1	HCEM1	Ecuador	Ondas Carchenses, Tulcán
1260	5/2.5	LT9	Argentina	R. Santa Fé, Santa Fé
	10/5	PRA5	Brazil	R. São Paulo
	5	ZYL21		R. Gazeta de Alagoas, Maceió
	1/0.25	ZYS79		R. Atalaia de Londrina
	1	ZYX27		R. Educação Rural, Campo Grande
	10	XYG		R. Clube do Piauí, Teresina
	1/0.25	ZYV65		R. Ibituruna, Governador Valadares
	1	ZYR263		R. Independência, São José do Rio Prêto
	10	CA126	Chile	R. El Morro, Arica
	1	HJDA	Colombia	Emis. Singlo Veinte, Medellín
	1	HJDV		R. Cacique, Ibagué
	2	HJET		R. Quince, Cali
	1	HJHU		R. Morgan, Isla de San Andrés
	1	HJNO		R. Duitama, Duitama
	1	HJOH		La Voz del César, Valledupar
	0.25	HCWN1	Ecuador	La Voz del Triunfo, Sto. Domingo de los Cds.
	1/0.25	CW37	Uruguay	Dif. Rochesnse, Rocha
	1	YVRY	Venezuela	R. Horizonte, Nirgua
1265	1	ZYU44	Brazil	R. Clube Metrópole, Pôrto Alegre (nom. 1270)
	0.25	HCJE5	Ecuador	Ondas Azuayas, Cuenca
1270	30/5	LS11	Argentina	R. Provincia de Buenos Aires, La Plata
	0.25	CP55	Bolivia	R. Universidad, Oruro
	1	ZYB5	Brazil	R. Poti, Natal
	1	ZYV62		R. Carijós, Conselheiro Lafaiete
	10	ZYX9		R. Brasil Central, Goiânia
	1			R. Alvorada de Parintins, Parintins
	1/0.25	ZYS23		R. Cultura de Maringá
	1	ZYR39		R. Brasil, Campinas
	1	CA127	Chile	R. Norte, Antofagasta
	1	CB127		R. Soc. Nacional de Mineria, Viña del Mar
		CD127		R. Univ. Técnica del Estado, Temuco
	1	HJKZ	Colombia	Onda Libre, Pereira
	1	HJTX		R. Quince, Girón
	1	HJAR		La Voz de Cartagena
	1	HJEB		La Voz de Ciénaga
	5	HCUM2	Ecuador	R. Universal, Guayaquil
	0.5	OAX1H	Peru	R. Grau, Piura
	1	OAZ4H		R. Huacho, Huacho
	1	OBZ4T		R. La Merced, La Merced
	1	OAX5B		R. Ica, Ica
	1	OBX7G		Ondas del Titicaca, Puno
	1	OAX8T		R. El Eco, Iquitos
	1	OAX9F	Peru	R. Nor Peruana, Chachapoyas
	1	YVOU	Venezuela	Ondas Panamericanas, El Vigía
	1	YVTR		R. Tucupita, Tucupita
1280	50	PRG3	Brazil	R. Tupí, São Paulo
	1	HJLR	Colombia	R. Pasto, Pasto
	10	HJKN		R. Metropolitana, Bogotá (v)
	0.35	HCAB1	Ecuador	La Voz de la Democracia, Quito
	10	OBZ4K	Peru	R. Noticias, Lima
	1	YVNB	Venezuela	La Voz de la Sierra, Churuguara
	10	YVSQ		R. Nacional, San Fernando de Apure

kHz	kW	Call	Country	Station/Location
1285	1	HJNQ	Colombia	La Voz del Rio Suárez, Barbosa (nom. 1280)
	1	HCVN4	Ecuador	La Voz del Sur de Manabi, Jipijapa
1290	1	HJ..	Colombia	R. Estrella, Armenia
	1	HJCM		R. Sur, Pitalito
	1	HJIA		R. Villavicencio
	1	HJKY		Ondas del Puerto, Girardot
	1	HJTH		R. Ritmos, Medellín
	10	HJHI		La Voz de Garagóa
	1	HJOI		Ondas del Maicao
	0.5	HCJA5	Ecuador	La Voz del Rio Tarqui, Cuenca
	1	CX38	Uruguay	S.O.D.R.E., Montevideo
	1	YVLF	Venezuela	R. Puerto Cabello
1292	1	HJEC	Colombia	R. Libertador, Cali (nom. 1290)
1295	0.3	HCMS1	Ecuador	R. Pacifico, San Isidro
	0.2	HCVM6		R. Once de Noviembre, Latacunga
1300	3/1.5	LT11	Argentina	R. Concepción del Uruguay
	10/1.5	LU13		R. Necochea, Necochea
	0.25	CP29	Bolivia	R. Fides, La Paz
	1	CP51		R. Loyola, Sucre
	1	CP68		R. San Rafael, Cochabamba
	10	ZYR7	Brazil	R. Iracema de Fortaleza, Fortaleza
	10/5	PRE4		R. Cultura de São Paulo, São Paulo
	1	ZYV76		R. Cancela, Ituitutaba
	1/0.25	ZYR264		R. Cinquentenário, Birigui
	1	ZYX22		R. Cultura de Cuiabá
	5	ZYS87		R. Atalaia de Maringá, Maringá
				R. Correio da Paraíba, João Pessôa
	10	CB130	Chile	R. Presidente Balmaceda, Santiago
	1	HJLD	Colombia	Emis. Rio San Eugenio, Santa Rosa de Cabal
	1	HJOG		La Voz de las Antillas, Cartagena
	1	HCDC2	Ecuador	R. Cenit, Guayaquil
	1	OAX1I	Peru	R. Lambayeque, Chiclayo
	1	OBX1M		R. Atlanta, Chulucanas
	1	OAX3O		R. Huascarán, Huaráz
	1	OAZ4B		R. Andina, Huancayo
	1	OAX4M		R. Atalaya, Lima
	1	OAZB		R. Monterreal, Pucallpa
	1	OBX5G		La Voz de Lucanas, Piquio
	0.4	OAX6P		R. Latina, Tacna
	0.35	OAX7P		Onda Imperial, Cuzco
	0.3	OAX7X		R. Juliaca, Juliaca
	10	YVKH	Venezuela	R. Crono Radar, Petare
	1	YVNS		R. Reloj, Maracaibo
1305	5	ZP10	Paraguay	R. Paraguay, Asunción (nom. 1300)
1308	1	HJIR	Colombia	La Voz de Urabá Turbo (Apartado) (nom. 1300)
1310	5	LRA5	Argeninta	R. Nacional, Rosario
	2.5	HJAK	Colombia	La Voz de la Patria, Barranquilla (v)
	1	HJJZ		R. Quince, Bogotá
		HJTQ		R. Tasajero, Cúcuta
	1	HJDG		Transmisora Rio Monteria
	1	HJNB		R. Quince, Bucaramanga
	10	HCGB1	Ecuador	R. Nac. Espejo, Quito
	1	YVPG	Venezuela	R. Tinaquillo
1315	0.25	HCLP3	Ecuador	La Voz de El Oro, Pasaje
1318	1	HJTA	Colombia	La Voz de la Independencia, Medellín (nom. 1320)
1320	10		Brazil	A Voz da Amazônia, Manaus
	1			R. Cultura de Piaui, Teresina
	1	ZYL25		R. Wrogresso de Alagôas, Maceió
	10	ZYZ34		R. Rio de Janeiro, Rio
	1	ZYR201		R. Dirceu de Marília

kHz	kW	Call	Country	Station/Location
1320	5	ZYS68		R. Cruzeiro do Sul, Curitiba
	5	ZYT31		R. Herval d'Oeste, Joaçaba
	1/0.5	PRH4		R. Dif. Cultura de Pelotas, Pelotas
	5	ZYG3		R. Clube de Goiânia
	0.25	CA132	Chile	R. Estrella del Norte, Vallenar
	10	CC132		R. Simón Bolivar, Concepción
	1	HJFR	Colombia	Ondas del Huila, Neiva
	1	HJHT		R. Furatena, Chiquinquirá
	1	HJNK		R. Luna, Palmira
	1	HJVT		La Voz de Tocarema, Girardot
	0.25	HCJD6	Ecuador	R. Continental, Ambato
	10	OAX4I	Peru	R. La Cronica, Lima
	1	OAX1F		R. Talara, Talara
	0.5	CW39	Uruguay	La Voz de Paysandú
	5	YVSG	Venezuela	R. Colonial, El Tocuyo
1322	1	HJHY	Colombia	Transmisora Sucre, Sincelejo (nom. 1340)
1325	3	HCFR2	Ecuador	R. Guayaquil, Babahoyo
1328	1	HJAD	Colombia	R. Vigia, Cartagena (nom. 1330)
1330	10/2.5	LT14	Argentina	R. General Urquiza, Paraná
	0.25	CP36	Bolivia	R. Mercurio, Oruro
	0.25	CP45		R. Cultura, Cochabamba
	0.25	CP106		R. Trinidad, Trinidad
	10	ZYE25	Brazil	R. Dif. Liberal, Belém
	1/0.5	PRI8		R. Cultura de Araçatuba
	1/0.5	ZYV33		R. Diamantinense, Diamantina
	1			R. Jornal do Comércio, Triunfo
	1/0.5	ZYI5		Soc. Educ. de Itajubá
	1/0.25	ZYV59		R. Operária de Araxá
	1/0.5	PRC4		R. Clube de Blumenau
	1	ZYR41	Brazil	R. Cacique de São Caetano do Sul
	1	CB133	Chile	R. Panamericana, Santiago
	1	CD133		R. Vicente Pérez Rosales, Puerto Montt
	0.45	HCLW5	Ecuador	R. Canal 1330, Cuenca
	1/5	ZP4	Paraguay	R. Chaco Boreal, Boreal
	1	CX40	Uruguay	R. Fénix, Montevideo
	1	YVOY	Venezuela	R. Los Llanos, Calabozo
1332	1		Brazil	R. Progresso de Juazeiro, Juazeiro do Norte
1334	1	ZYX2		R. Arapuãn, João Pessôa (nom. 1340)
1335	1	HCPX1	Ecuador	R. Nacional Victoria, Quito
1337	5	HJFE	Colombia	La Voz de Pereira, Pereira (nom. 1330)
1340	10/5	LU19	Argentina	R. La Voz del Comahué, Cipolletti
	10/2	LU11		Radioemisora del Oeste, Trenque Lauquen
	0.25	CP24	Bolivia	R. Grigotá, Santa Cruz (rep. on 1345)
	1	ZYF25	Brazil	R. Gurupi, São Luiz
	1			Ceará R. Clube, Pinheiro
	25/5	PRH6		R. Guaraní, Belo Horizonte
	1/0.25	ZYX5		R. Soc. Oeste Catarinense Chapecó
	0.25	CA134	Chile	R. Toco, Tocopilla
	1	CB134		R. Porteña, Valparaiso
	1	CC134		R. La Discusión, Chillán
	1	HJFA	Colombia	CRC Cadena Radial del Caribe, Barranquilla
	1	HJFB		R. Calidad, Bogotá
	1	HJNA		R. Nariño, Pasto
	2	HCOF4	Ecuador	La Voz de Chone, Chone
	1	OBX1K	Peru	R. San Francisco, Piura
	0.2	OAZ4M		R. Huaral, Huaral
	0.5	OAX5D		R. Chincha, Chincha
	0.5	OAX5H		R. Ayacucho, Ayacucho
	0.5	OAX6L		R. El Misti, Arequipa

kHz	kW	Call	Country	Station/Location
1340	0.1	OAX6Y		R. San Felipe, Parroquia de Garumas
	0.5	OBX7X		R. Urubamba, Urubamba
	1	OAX9C		R. Tropical, Tarapoto
	2.5/1	CW53	Uruguay	La Voz de Melo, Melo
	10	YVQU	Venezuela	R. San Carlos
1342	1	HJBF	Colombia	La Voz del Norte, Cúcuta (nom. 1340)
1345	0.25	CP24	Bolivia	R. Grigotá, Santa Cruz (nom. 1340)
	5	HCPB6	Ecuador	R. Paz y Bien, Ambato
	1.5	HCCM1		R. Colón, Quito
1346	1	HJMQ	Colombia	La Voz de Chicamocha, Bucaramanga (nom. 1330)
1350	10/5	LS6	Argentina	R. América, Buenos Aires
	1	CP82	Bolivia	R. Estación Electra, Potosí
	2	ZYO7	Brazil	R. Borborema, Campina Grande
	5	ZYN35		R. Dif. Sul da Bahia, Itabuna
	5	PRH5		R. Cultura de Poços de Caldas
	1/0.25	ZYR251		R. Metropolitana Paulista, Mogi das Cruzes
	1	ZYU85		R. Guarantã, Sta. Maria
	1/0.25			R. Estadual, Canoinhas
	1	ZYO26		R. Dif. do Mimoso do Sul, Mimoso doSul
	1		Brazil	R. Educ. de Coronel Fabriciano
		CC135	Chile	R. Imperial, Temuco
	1	CD135B		R. Pudeto, Ancud
	1	CD135C		La Voz del Sur, Punta Arenas
	1	HJDS	Colombia	La Voz de la Candelaria, Bello
	1	HJOK		R. Peninsular, Maicao
	1	HJEN		R. La Fabulosa, Cali
	1	HJHL		R. Industrial, Ibagué
	1	HJFY		La Voz de Chaparral
	1	HJIG		Ondas del Meta, Villavicencio
	0.3	HCVP2	Ecuador	R. Reloj. Guayaquil
	1	HCPZ1		R. Rumichaca, Tulcán
	1	OAX3N	Peru	Ondas de Huallaga, Huánuco
1354	2	HJHW	Colombia	Ecos del Río, Puerto Boyacá (nom. 1350)
1360	0.25	LV17	Argentina	R. Municipal de Córdoba, Córdoba
	10	ZYH25	Brazil	R. Uirapuru, Fortaleza
	5	ZYR90		R. Cultura de Fernandópolis, Fernandópolis
	10	PRC8		R. Guanabara, Rio
	1	ZYU82		R. Alvorada de Maraú
	5	ZYS86		R. Independência do Paraná, Curitiba
	1	CA136	Chile	R. Riquelme, Coquimbo
	10	CC136		R. Univ. de Concepción
	1	HJFH	Colombia	La Voz de Anserma
	5	ZP6	Paraguay	R. Guairá, Villarrica
	1	OAX4Y	Peru	R. Excelsior, Lima
	0.35	OAX7R		R. Sicuani, Sicuani
	5	CW41	Uruguay	Broadc. San José
	1	YVNG	Venezuela	R. Lagunillas
1362	1	HJJA	Colombia	R. Buenaventura, Buenaventura (nom. 1240)
1367	1	HJGI		Emis. José A. Galán, Socorro (nom. 1360)
1370	0.25	LV18	Argentina	R. Municipal de San Rafael, San Rafael
	1	ZYQ3	Brazil	R. Dif. de Teresina
	5	ZYK31		R. Continental, Recife
	1	ZYO22		R. Capixaba, Vitória
	0.5	ZYX4		R. Cultura de Campo Grande, Campo Grande
	1	PRD4		R. Cultura de Araraquara, Araraquara
	1	ZYW21		R. Anhanguera, Goiânia
	5/0.5	ZYF3		R. Caxias do Sul.
	1	ZYR212		R. Industrial Paulista, São Paulo
	1	HJBD	Colombia	R. Guaimaral, Cúcuta
	1	HJBO		R. Piloto Barranquilla
	1	HJNI		R. Sabanas, Sincelejo (nom. 1360)

kHz	kW	Call	Country	StationL/ocation
1370	1	HJKX		R. Mundial, Bogotá (Zipaquirá)
	0.25	HCHA2	Ecuador	La Voz del Río Quevedo, Quevedo
	1	OAX1G	Peru	R. Tumbes, Tumbes
	1	OBX4V	Peru	R. Junín, Huancayo
	0.5	OAZ4O		R. Exito, Huacho
	0.5	OAX6-		R. Moquegua, Moquegua
	0.5	OAX8G		R. Sargento Lores, Iquitos
	0.5	OAX2D		R. Cajamarca, Cajamarca
	0.5	OAX5F		R. Huancavelica
	0.5	OAX5I		R. Abancay, Abancay
	2.5	CX42	Uruguay	R. del Pueblo, Montevideo
	1	YVLO	Venezuela	R. Dif. la Pascua, Valle de la Pascua
1373	1	HJEA	Colombia	La Voz del Cauca, Popayán (nom. 1370)
1375	1	HCCM6	Ecuador	La Voz del Colegio Mera, Ambato
	5	HCVM2		R. Dif. La Voz del Milagro, El Milagro
1380	50	CB138	Chile	R. Cruz del Sur, Stgo.
	1	HJEJ	Colombia	Armonías del Palmar, Palmira
	1	HJLG		La Voz de La Dorada
	5	HJKD		Armonías del Sur, Neiva
	1	HJNU		R. Santa Bárbara
	1	OAX2W	Peru	R. Atahualpa, Cajamarca
	1	OBX1M		R. Atlanta, Chulucanas
	0.3	OCX4V		R. Fessa, Cañete
	1	OBX5C		R. El Pueblo, Ica
	1	OAX6D		R. San Martín, Arequipa
	1	YVOW	Venezuela	R. Boconó, Boconó
1382	1	OAX3H	Peru	R. Interamericana, Chimbote (v) (nom. 1370)
1385	0.5	HCJN1	Ecuador	R. El Tiempo, Quito
1388	0.25	CW45	Uruguay	Dif. Treinta y Tres, Trienta y Tres (nom. 1390)
1390	0.25	LU17	Argentina	R. Golfo Nuevo, Puerto Madryn
	5/2.5	LR11	Argentina	R. Universidad de La Plata, La Plata
	1	CP3	Bolivia	R. Nacional, La Paz
	0.25	CP113		R. Villazón, Villazón
	1	ZYK25	Brazil	R. Dif. de Pesqueira
	1	PRE5		R. Triângulo Mineiro, Uberaba
	1/0.25	ZYJ2		R. Sul Fluminense, Barra Mansa
	1	ZYU75		R. Pôrto Alegre
	2	ZYV49		R. Jornal de Minas, Belo Horizonte
	1	ZYN39		R. Jornal, Itapetinga
	1	ZYS46		R. Tinguí, Piraquara
	1	HJFO	Colombia	R. Luz, Manizales
	1	HJNY		R. Pipatón, Barrancabermeja
	0.3	HCCV5	Ecuador	La Voz de los Cuatro Rios, Cuenca
1395	1	HJTJ	Colombia	La Voz de Cereté, Cereté (nom. 1400)
	3	HCVE4	Ecuador	La Voz de Esmeraldas
1400	5	ZYH30	Brazil	R. Educ. de Cariri, Crato
	1	ZYU55		R. Emis. Veranense, Veranópolis
	10	PRD5		R. Roquete Pinto, Rio
	1	PRK6		R. Dif. de Poços de Caldas
	1/0.25	ZYR224		R. Dif. Riopretense, São José do Rio Preto
	5	ZYS76	Brazil	R. Cruzeiro do Sul de Londrina, Londrina
	1			R. Emis. Cultural, Rio do Sul.
	0.25	CA140	Chile	R. Atacama, Copiapó
	1	CC140		R. Araucania, Concepción
	1	HJAS	Colombia	R. Variedades, Barranquilla
	1	HJBK		La Voz de la Gran Colombia, Cúcuta
	1	HJJJ		R. Ipiales, Ipiales
	0.25	HJKM		Emis. Mariana, Bogotá
	0.2	HCFL2	Ecuador	R. Continental, Guayaquil
	0.3	HCBS4		R. Tropical, Manta
	1	OAX2O	Peru	R. Perú, Chepén
	3	OBX4W		R. Callao, Callao (v)
	0.5	OAZ4P		R. San Juan, Tarma

kHz	kW	Call	Country	Station/Location
1400	0.2	OAX6J		R. Landa, Arequipa
	0.45	OAX7I		R. La Hora, Cuzco
	10/5	CX140	Uruguay	Dif. Zorilla de San Martín, Tacuarembó
1410	1	ZYF21	Brazil	R. Ribamar, São Luiz
	1			R. Educ. São José, Macapá
	10	ZYH26		R. Verdes Mares, Fortaleza
	25/10	PRE7		R. América, São Paulo
	1	CB141	Chile	R. Valparaiso
	0.1	CD141		R. Loncoche, Loncoche
	1	HJEI	Colombia	Emis. Guadalajara, Buga
	0.5	HJDU		Emis. Cultural, Medellín
	1	HJFS		Ondas del Gualí, Honda
	1	HCMJ1	Ecuador	Emis. Gran. Colombia, Quito
	5	CX44	Uruguay	R. Panamericana, Montevideo
	1	YVNY	Venezuela	Radiodif. Orienta, Güiria
	5	YVST		R. Turén, Turén
1414	1	HJHM	Colombia	La Voz de Calarcá, Calarca (nom. 1410)
1420	1	CP49	Colivia	R. Central, Cochabamba
	1/0.25	ZYI4	Brazil	R. Imbiara de Araxá, Araxá
				R. Educ. de Laranjeiras do Sul.
	5/2.5	ZYJ7		R. Guarujá, Florianópolis
	1	ZYU92		R. Triunfo, Pôrto Alegre
	1			R. Colonial, Panamabi
	0.1	CA142	Chile	R. Alonso de Ercilla, Illapel
	1	CB142		R. Nacional, Santiago
	0.25	CC142		R. Maule, Cauquenes
	1	HJAP	Colombia	R. Bahía, Cartagena
	1	HJHK		R. Reloj, Manizales
	0.3	HCCV6	Ecuador	La Voz de Salcedo
	0.5	OBX1H	Peru	R. Catacaos, Catacaos
	1	OBZ4G		R. San Isidro, Lima
	0.4	OBX5H		R. Apurimac, Abancay
	1.5	OAX6S		R. Toquepala, Tacna
	1	OCX7C		R. Collasuyo, Juliaca
	1	OAX8Z		R. Oriente, Yurimaguas
	1/0.5	CW43	Uruguay	R. Lavalleja, Minas
	0.25	CW133		La Voz de Artigas
	1	YVOF	Venezuela	R. Trujillo, Trujillo
1428	1	HJBH	Colombia	R. Magdalena, Santa Marta (nom. 1430)
1430	0.25	LU23	Argentina	R. El Turbio
	0.25	LT23		R. San Genaro Norte, San Genaro Norte
	1	ZYG21	Brazil	R. Clube de Teresina
	1/0.25	ZYH5		R. Clube de Tupã, Tupã
	1	ZYM21		R. Jornal de Sergipe, Aracajú
	10	PRE2		R. Vera Cruz, Rio
	1	CC143	Chile	R. El Libertador, Rancagua
	1	CD143		R. Eleutario Ramírez, Osorno
	0.25	CD143B		R. Cacique Paillalef de Pitrufquén, Pitrufquén
	1	HJDP	Colombia	R. Pamplona, Pamplona
	1	HJEG		La Voz de Belalcázar, Popayán
	1	HJKU		La Voz de María, Bogotá
	10	HCBX1	Ecuador	R. Casa de la Cultura, Quito
	1	ZP3	Paraguay	R. Teleco, Asunción
	0.5	OAZ4V	Peru	R. Universal, Huancayo
	1	CW25	Uruguay	R. Durazno, Durazno
	1	YVNJ	Venezuela	R. Exito, Bachaquero
1432	1	HJBY	Colombia	Ondas del Orteguaza, Florencia (nom. 1410)
1440	0.5	CP104	Bolivia	R. Oriente, Camiri
	0.25	CP107		R. Yaguari, Vallegrande
	0.25	CP . .		R. Batallón Colorados, La Paz
	10	PRB2	Brazil	R. Clube Paranaense, Curitiba
	5	ZYV29		R. Acaiaca, Belo Horizonte
	1	PRF6	Brazil	R. Baré, Manaus.
		CC144	Chile	R. Corporación, Concepción

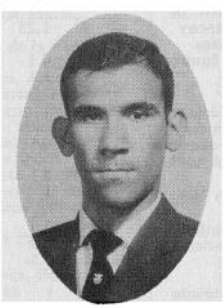
kHz	kW	Call	Country	Station/Location
1440		CB144		R. Sargento Candelaria, Santiago
		CA144		R. Univ. Técnica, La Serena
	1	HJFL	Colombia	Ondas de Ibagué, Ibagué
	1	HJEK		R. Tuluá, Tuluá
	1	HJZH		La Voz Katia, Medellín
	1	HJIB		La Voz de Caquetá, Florencia
	1	HJNZ		Armonías del Ingruma, Riosucio
	2	HCOV5	Ecuador	Ondas del Volante, Azogues
	0.6	HCDF1		La Voz del Norte, Ibarra
	1	OCX4X	Peru	R. Continente, Lima
	1	OAX6R		R. El Tiempo, Arequipa
	1	YVFR	Venezuela	R. Orituco, Altagracia de Orituco
	10	YVOO		R. Frontera, San Antonio del Táchira
	5	YVTY		R. Sucecos, Tariba
1445	1	HJBZ	Colombia	Ondas de Riohacha, Riohacha (nom. 1430)
	1	HJGM		R. Sogamoso, Sogamoso (nom. 1440)
	0.2	HCSC5	Ecuador	La Voz del Chofer, Riobamba
	1	YVOJ	Venezuela	R. Universidad, Mérida (v) (nom. 1450)
1450	1	CP61	Bolivia	R. Emisoras Bolivia, Oruro
	10	PRC5	Brazil	R. Clube do Pará, Belém
	1	ZYJ20		R. Caturité, Campina Grande
	5/1	PRB4		R. Clube de Santos,
	1	ZYR249		R. Assunção de Jales
	5/2.5	ZYP36	Brazil	Campos Dif., Campos,
	1/0.25	ZYT21		R. Coroados, Curitibanos
	0.25	CB145	Chile	R. Universidad Técnica Santa María, Valparaiso
	1	CC145		R. Condell, Curicó
	0.25	CD145A		R. Arauco, Angol
	2.5	CD145B		R. Turismo, Pto. Varas
	1	HJNL	Colombia	R. Sintonía, Villa María
	1	HJTY		La Voz del Carare, Vélez
	0.25	HCAQ2	Ecuador	R. Nueva Ortiz, Guayaquil
	5/2.5	CX46	Uruguay	R. América, Montevideo
1460	0.25	LW2	Argentina	Radioemisora Tartagal
	1	ZYH22		R. Iracema de Sobral
	1	CA146	Chile	R. Antofagasta
	1	CB146		R. Yungay, Santiago
		CC146		R. Talcahuano
	0.25	CC146B		R. Regional, Curicó
	1	HJAL	Colombia	R. Sincelejo, Sincelejo
	1	HJBA		La Voz de Pamplona
	1	HJBQ		R. Fundación, Fundación
	1	HJJW		R. Nuevo Continente, Bogotá
	5	HCGM1	Ecuador	R. Reloj, Quito
	1	OAX1V	Peru	La Voz de Chira, Sullana
	0.25	OAX3C		R. Huánuco, Huánuco
	0.5	OCY4I	Peru	R. Imperial, Junín
	2.5	OAX5K		R. Internacional, Pisco
	1	OAX7W		R. El Sol de los Andes, Juliaca
	1	OAX3W		R. Chimú, Huaráz
	0.25	CW46B	Uruguay	Liceo de Dolores, Dolores, Soriano
	0.03	CW46C		Liceo de San Carlos, San Carlos
1462	1	HJZU	Colombia	La Voz de la Amistad, Pasto (nom. 1460)
1465	0.2	HCET4	Ecudaor	R. El Triunfo, Exmeraldas
1470	0.25	LV19	Argentina	R. Municipal de Malargüe
	1/0.5	LT13		R. Oberá, Oberá
	1	ZYK22	Brazil	R. Liberdade de Caruaru, Caruarú (v)
	1/0.5	ZYD2		R. Soc. Muriaé, Muriaé
	0.5	PRJ4		R. Educ. de Parnaíba

kHz	kW	Call	Country	Station/Location
1470	1/0.5	PRC6		R' Dif. Brasileira, Uberlândia
	1	ZYE29		R. Emis. de Educacão Rural, Santarém
	1/0.5	ZYE3		R. Emis. Convenção de Itú, Itú
	1	ZYN3		R. Progresso, Novo Hamburgo
	1			R. Cultura, Volta Redonda
	1			R. Clube Epitácio, Presidente Epitácio
	1	CB147	Chile	R. Sargento Aldea, San San Antonio
	1	HJIM	Colombia	R. Ya, Medellín
	1	HJBM		La Voz de Honda, Honda
	1	HCEC1	Ecuador	Ecos de Cayambe
	1	HCLT2	Ecuador	La Voz de Babahoyo
	1	OCX4D	Peru	R. Huancayo, Huancayo
	0.15	OAX7G		R. Cuzco, Cuzco
	0.45	OAX8H		R. La Hora, Iquitos
	1/0.5	CX147	Uruguay	R. Monetvideo
1472	1	ZYZ6	Brazil	R. Espinharos de Patos, Patos (nom. 1470)
1475	0.22	HCEJ3	Ecuador	Ecos de Jambelí, Puerto Bolivar
	0.5	OCX4P	Peru	R. Pasco, Cerro de Pasco (nom. 1490)
1476	1	HJNT	Colombia	La Voz del Paraiso, Cerrito (nom. 1470)
1480	1	ZYB20	Brazil	R. Rio Mar, Manaus
	1	ZYH20		R. Araripé Crato
	5	PRD3		Petrópolis R. Dif., Petrópolis
	0.5	ZYJ3		R. Carajá, Anápolis
	1	CD148	Chile	R. Baquedano, Valdiva
	1	HJDH	Colombia	R. Quibdó, Quibdó
	1	HJFC		R. Centinela, Pereira (v)
	3	HJTZ		R. Palonegro, Bucaramanga (Lebrija)
	1	HJCL		R. Garzón, Garzón (nom. 1500)
	1	HCJV4	Ecuador	La Voz de Jipijapa
	1	HCRM6		R. Musical, Ambato
	1	ZP8	Paraguay	R. Concepción
	1	ZP20		R. América, San Juan Bautista de las Misiones
	10	OBX4E	Peru	R. Inca del Perú, Lima
	2	CW43B	Uruguay	R. Internacional, Rivera
	0.1	CW148		Broadcasting Agraciada, Mercedes
1485	0.5	OAX6K	Peru	R. Tacna, Tacna (nom. 1470)
1490	1	PRJ9	Brazil	R. Timbira, São Luiz
	1	ZYL20		Emis. Rio São Francisco Penedo
	1/0.5	ZYP29		Emis. Continental de Campos, Campos
	2	ZYA2		R. Dif. Matogrossense, Corumbá
	0.5	ZYT52		R. Dif. de Criciuma
	1	CB149	Chile	R. La Verdad, Santiago
	0.1	CD149		R. Malleco, Victoria
	1	HJBS	Colombia	R. Ritmos, Bogotá
	1	HJAY		R. Cumbia, Barranqilla
	1	HCQM1	Ecuador	R. Atahualpa, Quito
	0.25	OAX1L	Peru	R. Imperio, Chiclayo
	0.25	OAX5L		R. Consejo Prov. de Abancay, Abancay
	0.3	OAX5N		R. Nazca, Nazca
	1	OAX8J		R. Atlántida, Iquitos
	2	CX48	Uruguay	R. Femenina, Montevideo
	1	YVTL	Venezuela	R. Mérida, Mérida
1495	0.5	HCHG2	Ecuador	R. Central, Vinces
1496	0.4	HCWN5		R. Puruha, Riobamba
1500	10	CA150	Chile	R. Almirante Lynch, Iquique
	0.25	CC150		R. Centenario, San Javier
	1	HJGA	Colombia	R. Boyacá, Tunja
	1	HJLJ		R. Calima, Darien
	1	HJTW		R. Sumapaz, Fusagasugá
	1	HCRO1	Ecuador	R. Otavalo, Otavalo
	10	OBX4I	Peru	R. Santa Rosa, Lima
	1	OAX6I		R. Moquegua, Moquegau
1505	2	HCL3	Ecuador	R. Centinela del Sur, Loja
	1	HJHX	Colombia	La Voz Panaméricana, Bucaramanga (nom. 1510)
1510	0.25	LW4	Argentina	R. Orán, Orán
	10/5	LU18		R. El Valle, General Roca
	0.25	CP1	Bolivia	R. Chuquisaca, La Paz
	0.25	CP79		R. La Voz Nacional, Tarija
	0.25	CP80		R. Litoral, Cochabamba
	0.25	CP101		R. Suipacha, Villazón
	0.25	CP102	Bolivia	R. 27 de Diciembre, Villa Montes
	1	CP121		R. Cetcar, Oruro
	1	ZYY5	Brazil	R. Repórter, Ijuí, RS
	1/0.25	ZYU46		Soc. A Voz de Bagé
	1/0.25	ZYG20		R. Dif. de Floriano
	1	CC151	Chile	R. Rancagua, Rancagua
	1	HJZA	Colombia	R. Estrella, Armenia
	1	HCAO2	Ecuador	R. Exito, Guayaquil
	1	OAX2L	Peru	R. Sudamericana, Pacasmayo
	0.1	OCX4J		R. Tarma, Tarma
	1	OAX6M		R. Univ, Arequipa
	0.1	CW47B	Uruguay	R. Berna, Nueva Helvecia
1513	1	HJGX	Colombia	R. Progreso de Córdoba, Lorica
1520	0.1	LT21	Argentina	R. Municipal de Alvear
	1	CC152	Chile	R. Soberanía, Linares
		CD152		R. Anibal Pinto, Lautaro
	2.5	HJLQ	Colombia	R. Minuto, Barranquilla
	5	HJLI		R. Latina, Bogotá
	1	HJLS	Colombia	R. Popayán, Popayán
	1.3	HCVR1	Ecuador	R. Cordillera, Quito
	1	OAX1C	Peru	R. Délcar, Chiclayo
	0.5	OAZ4D		R. Mineria, La Oroya
	0.25	OBX7U		R. Maldonado, Puerto Maldonado
	2/0.25	CX152	Uruguay	R. Cerro Largo, Melo
1523	5	OBX4D	Peru	R. Reloj, Lima (nom. 1520)
1525	1	HJBV	Colombia	R. Canoa, Turbaco (nom. 1540)
1530	0.25	CP111	Bolivia	R. Ballivián, San Borja
	0.5	CP116		R. Cosmos, Cochabamba
	1/0.25	ZYU34	Brazil	R. Uparacai, Dom Pedrito
	1	ZYA9		R. Dif. de Assís, Assís
	1	ZYS2		R. Jaguariaiva
		CA153	Chile	R. Juan Godoy, Copiapó
	1	CB153		R. San Martin Quillota,
	1	CC153		R. El Carbón ,Lota
	1	HJJB	Colombia	R. Sevilla, Sevilla
	1	HJLE		R. Armero, Armero
	0.25	HJDN		Liceo Departamental, Sonsón
	0.35	HJGD	Colombia	Reina de Colombia, Chiquinquirá
	0.2	HCVU2	Ecuador	La Voz de Urdaneta, Ricaurte
	5	HCOC5		Ondas Cañarias, Azogues
	1	OBZ4S	Peru	R. Nueva Voz del Centro, El Tambo
	1.25	CX50	Uruguay	R. Independencia, Montevideo
	0.1	CW153		R. Tacuarembó
	1	CV153		R. Rincón, Fray Bentos
1535	5	HJHD	Colombia	La Voz del Petróleo, Barrancabermeja (nom. 1540)
	0.5	HCMH6	Ecuador	Org. Radiof. del Cotopaxi, Latacunga
1538	0.5	OAX4Q	Peru	R. Jauja, Jauja
1540	1	ZYM9	Brazil	R. Bragança, Bragança Paulista
	2.5	ZYS9		R. Novo Horizonte
	0.5	ZYI		R. Nordeste, Nova Cruz
	0.5	CB154	Chile	R. Sudamérica, Santiago
	1	HJZF	Colombia	Emis. Mariana, Manizales
		HJME		R. Sur Oeste, Concordia
	0.5	HCJB1	Ecuador	R. Cotacachi, Cotacachi

kHz	kW	Call	Country	Station/Location
1540	0.25	HCOS4		La Voz del Rio Carrizal, Calceta
	1.5	HC . . 3	Ecuador	R. El Sol, Machala
	1	OBZ4U	Peru	R. Barranca, Barranca
	0.5	OAX2Y		R. Heróica, Trujillo
	0.3	OBX4N		R. Corporación, Cerro de Pasco
	0.15	OAZ4N		R. San Pedro, Mala
	5	OAX6Q		R. Sur Peruana, Arequipa
	0.1	CX154	Uruguay	R. Olimar, Treinta y Tres
1545	0.25	HCAA3	Ecuador	R. Gauzanama, Guazanama
1550	0.25	LT18	Argentina	R. Eldorado, Eldorado
	0.25	LT19		R. Municipal de Santo Tomé, Santo Tomé
	0.5	CP50	Bolivia	R. Pio XII, Llallagua
	0.5	CP83		R. Norte, Montero
	0.5	CP115		R. Caranavi, La Paz
	0.1	CB155		R. Provincial, Putaendo
	0.25	CC155		R. Manuel Rodríguez, San Fernando
	0.25	CD155		R. Regional, Traiguén
	1	HJLT	Colombia	Ecos del Quilichao, Santander
	1	HJZI		R. Fantasia, Bogotá
	1	HJAX		La Voz Porteña, Barranquilla
	0.5	HCEJ6	Ecuador	R. Cosmopolita, Ambato
	0.25	HCAD5		La Voz del Valle, Santa Isabel
	0.25	CX155	Uruguay	R. Carmelo, Carmelo
1552	1	HJGY	Colombia	R. Maganué, Magangué (nom. 1550)
1555	1	HJLP		R. Espacial, Tuluá (nom. 1560)
	0.5	HCTR3	Ecuador	La Voz del Guabo
1559	1	OAX2X	Peru	R. Primavera, Trujillo (nom. 1560)
1560	1	ZYK30	Brazil	R. Cultura do Nordeste, Caruarú
	1	ZYN33		R. Educ. de Santo Amaro, Santo Amaro
	0.1	CB156	Chile	R. Limache, Limache
	0.1	CC156		R. Central, San Carlos
	0.1	CD156		R. Jerónimo de Alderete, Villarrica
	1	HJCP	Colombia	R. Parroquial, Nemocón
	1	HJGP		R. Sutatenza, Sutatenza
	1	HJKG		R. Cundinamarca, Tocaima
	0.25	HJZX		R. Copacabana, Medellín
	0.35	HCCS2	Ecuador	Centro Radiofónico Sideral, Daule
	5	HCRS4		R. Sensación, Santo Domingo de los Colorados
	1	OCX4F	Peru	R. Mundo, Huancayo
	0.35	OAX7U		R. Universidad, Cuzco
	1	CX156	Uruguay	R. America, Trinidad
	0.1	CW156		R. Arapey, Salto
	0.5	CW51		R. Maldonado, Maldonado
	0.7	CV156		R. Vichadero, Vichadero
1570	0.25	CB157	Chile	R. Trasandina, Los Andes
1570	1	HJZT	Colombia	R. Sensación, Manizales
	1	HJHE		Voces Rovirences, San José de Miranda
	0.35	HCAP1	Ecuador	R. Marañón, Quito
	0.25	HCAB3		Ondas de Paltos, Catacocha
	1	ZP17	Paraguay	R. Caaguazú, Coronel Oviedo
	1	OBZ4V	Peru	R. Universal, Huacho
	1	OAX7Y		R. Prelatura Nullius de Sicuani, Sicuani
	1	CX157	Uruguay	R. Canelones, Canelones
	0.25	CW52		R. Litoral, Fray Bentos
	0.1	CV157		Dif. del Norte, Bella Unión
1576	1	HJLC	Colombia	La Voz del Banco, El Banco (nom. 1580)
1580		CC158	Chile	R. Colchagua, Santa Cruz
		CD158		R. Presidente Kennedy, Puren
		HJKF	Colombia	Armonias Zipaquireñas, Zipaquirá
	0.3	HCAI6	Ecuador	R. La Voz de los Llanganates, Piliaro
	0.2	HCRJ4		R. Juventud, El Carmen
	0.35	HCEA5		Ecos del Portete, Girón
	5	HC . . 4		La Estación de la Alegría, Esmeraldas
	1	OAX3M	Peru	R. Regional, Chimbote
	0.5	OCY4B		R. Oxapampa, Oxapampa
	0.15	OAX5M		R. Villa Rica, Huancavelica
	0.5	OBX7Q		R. Triunfo, San Blas
	0.25	CW54	Uruguay	Emis. del Este, Minas
	0.1	CV158		R. Rivera, Rivera
1590	0.25	CP118	Bolivia	R. Eduardo Avaroa, Caranavi
	0.25	CB159	Chile	R. Aconcagua, San Felipe
	0.25	CC159		R. Rengo, Rengo
	1	HJIP	Colombia	La Voz de la Música, Medellín
	1	HJJQ		R. Zarzal, Zarzal
	0.5	HCRZ1	Ecuador	Escuelas Radiofónicas, Tabacundo
	0.25	HCBM2	Ecuador	R. Panamericana, Naranjal
	0.36	HCPJ2		Ondas de la Libertad, Libertad
	5	OAZ4Z	Peru	R. Agricultura, Lima
	0.25	CX159	Uruguay	Emis. Real de San Carlos, San Carlos
1595	1	HJJH	Colombia	R. Ciudad Milagro, Armenia (nom. 1600)
	0.3	HCQT6	Ecuador	R. Quero, Quero
1600		CB160B		R. Reloj, Valparaiso
	0.25	CB160A		R. Cronos, Santiago
	0.25	CC160B		R. Reloj, Talca
		CC160A		R. Horario, Concepción
		CD160		R. Horario, Temuco
	0.3	HCFM2	Ecuador	R. Consular, El Empalme
	1	CX160	Uruguay	R. Río Branco
	0.1	CV160		R. San Carlos
	0.25	CW56		Dif. Soriano, Mercedes

SOME OF OUR LATIN AMERICAN MONITORS

Raúl A. Taibo
Uruguay



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SHORT WAVE STATIONS OF THE WORLD

compiled by Anker Petersen

DECEMBER, 1969

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*=Standard Frequency Station; †=Time Signal Station; r=reported; Al=Albania; An=Angola; Argen=Argentina; Bol=Bolivia; Br=Brazil; Ch=Chile; Cl=Clube; Col=Colombia; C.Ve=Cape Verde Islands; Cult=Cultura; Dif=Difusora; Dom.Rep=Dominican Republic; Ec=Ecuador; Em=Emisora; GB=Great Britain; Ger=Germany; Gre=Greece; Gu=Guinea; Guat=Guatemala; Hon.Rep=Honduras Republic; Ja=Japan; Lib=Liberia; Lux=Luxembourg; Mal.Rep=Malagasy Republic; Mex=Mexico; Mon=Monaco; NewCal=New Caledonia; N.Gu.=New Guinea; NewHeb=New Hebrides; Neth.Ant=Netherland Antilles; Nicar=Nicaragua; Pe=Peru; Phil=Philippines; Switz=Switzerland; Ven=Venezuela; Viet=Vietnam.

kHz	m	kW	Call	Stations & Countries
			2000-2300kHz	
2160	139.4	0.25	XEVJ	Chilpancingo, Mexico
2200	136.4			Foochow, China
			2300-2498kHz (120 metre band)	
2312	129.8	2.5		Djakarta, Indonesia
2326	129.0	20		SABC, South Africa
2340	128.4			Foochow, China
	128.4	0.1	TGRW	S. Cruz Barillas, Guat.
	128.4	0.5	ZYV30	R. Dif. Brasileira, Br.
	128.4	1	YVPL	R. Nueva Esparta, Ven.
2346	127.7	20		SABC, South Africa
2350	127.6			Tsinan, China
	127.6	1	YDJ3	Jogjakarta, Indonesia
	127.6	1	TGSC	La V. de Candelaria, Guat.
	127.6	1	ZYB	R. Dif. Itacoatiara, Br.
	127.6	1	YVPH	R. Guárico, Ven.
2360	127.1	0.25	TGBA	R. Maya Barillas, Guat.
	127.1	0.25		R. Dif. Parintins, Br.
	127.1	1		R. Cult. do Nordeste, Br.
	127.1	0.5	YVQG	R. Carúpano, Ven.
2370	126.6	1	YDI3	Surabaja, Indonesia
2376	126.3	20		SABC, South Africa
2380	126.0	0.35	XESE	México City, México
	126.0	0.25	ZYE78	R. Educ. Limeira, Br.
2390	125.5	7.5	YDN	Banda Atjeh, Indonesia
	125.5	1/0.3	YDA6	Tjirebon, Indonesia
	125.5	0.5	ZYV71	R. Mundo Melhor, Br.
2400	125.0	0.1		R. Mossoró, Br.
	125.0	0.5		R. Dif. Amparo, Br.
	125.0	1		R. Educ. S. José, Br.
2410	124.5	0.25	VL9CG	R. Goroka, New Guinea
	124.5	0.25	4VU	R. Lumière, Haiti
	124.5	1		R. Em. Rural, Br.
	124.5	1		R. Sirena, Br.
2415	124.2			Wenchow, China
2420	124.0	0.25	YDA2	Bandung, Indonesia
	124.0	0.25	YDU7	Singaradja, Indonesia
	124.0	0.25	ZYV32	R. Carajá, Br.
	124.0	0.25		R. Carolina, Br.
	124.0	0.5		R. São Carlos, Br.
2427	123.7	1	YDK2	Palembang, Indonesia
2430	123.5			Fukien, China
	123.5	0.06		Malang, Indonesia
	123.5	0.2	HCEH3	R. El Progreso, Ec.
	123.5	1	YVPM	Esc. Radiofónicas, Ven.
2437	123.1	0.6/10	YDG4	Surakarta, Indonesia
2440	122.9	1	YVLG	R. Girardot, Ven.
2442	122.8	1		Tel Aviv, Israel
2446	122.7	4		St. Denis, Réunion
2448	122.5	1	YDG3	Surakarta, Indonesia
2450	122.5			Hangchow, China
	122.5	0.25	VL9CH	R. Mt. Hagen, N. Guin.
	122.5	0.25	4VSO	R. 4VEH, Haiti
	122.5	0.5	ZYR231	Cultura de Aracatuba, Br.
	122.5	1	YVOX	R. Los Llanos, Ven.
2460	121.9	2.5		Djakarta, Indonesia
2470	121.5	0.5	ZYR99	R. Cacique, Br.
	121.5	0.5		R. Dif. de Jatai, Br.
2475	121.2			Hangchow, China
	121.2	0.5		R. Angkatan Udara, Ind.
2480	121.0	1	YDL	Padang, Indonesia
	121.0	1	ZYR-	R. Bragança, Br.
	121.0	1	YVPD	R. Tiempo, Ven.
2490	120.5	0.3	YDQ	Makassar, Indonesia
	120.5	0.1	YDH	Semarang, Indonesia
			2498-3200kHz	
*2500	120.0	1	OMA	Praha, Czechoslovakia
*	120.0	5	FFH	Bagneux, France
*2500	120.0	0.5	MSF	Teddington, Gt. Britain
*	120.0	2	JJY	Tokyo, Japan
*	120.0	1	WWVH	Puunene, Hawaii
*	120.0	0.3	ZLFS	Lower Hutt, New Zealand
*	120.0	2.5	WWH	Fort Collins, USA
2510	119.5	10	HLK50	Seoul, Korea
2600	115.4			Fukien, China
†2614	114.5	10	DAM	Elmshorn, Germany
†	114.8	2	DAN	Norddeich, Germany
2635	113.9	0.3		Seoul (VUNC), Korea
2690	111.5			Harbin, China
†2775	108.1	10	DAM	Elmshorn, Germany
†	108.1	2	DAO	Kiel, Germany
2800	107.1			Fukien, China
2850	105.3	20/240		R. Peking, China
	105.3	120/240		Pyongyang, Korea
3120	96.15	20/240		R. Peking, China
†3170	94.06	8	OLB5	Praha, Czechoslovakia
			3200-3400kHz (90 metre band)	
3200	93.75	20/240		R. Peking, China
	93.75			Fukien, China
3202	93.69	2		Bangkok, Thailand
3204	93.64	10		Ibadan (NBC), Nigeria
3205	93.60	10		AIR Lucknow, India
	93.60	10	YDA1	Bandung, Indonesia
	93.60	1	YVRV	R. Litoral, Ven.
3210	93.44	0.25		Quelimane, Moçambique
	93.44	1.5		St. Denis, Reunion
3215	93.30	1	CR6RM	R. Cl. de Moçamedes, An.
	93.30	1	YVOE	Ondas Panamericanas, Ven.
3218	93.22	25		R. Clube de Moçambique
3220	93.17	20/240		R. Peking, China
3223	93.09	2.5		AIR Simla, India
	93.09	1	YDV5	Mataram, Indonesia
	93.08	0.15	—	Purwokerto, Indonesia
3225	93.05	1	YVKV	Emis. Vargas, Ven.
3227	93.03	10		R. St. ELWA, Liberia
3230	93.00	10	VRH8	Suva, Fiji Islands
	93.00	0.4	OBX7D	R. El Sol, Peru
3232	92.82	1.5		R. Brazzaville, Congo
	92.82	30		Tananarive, Malagasy Rep.
	92.82	0.3	YDM	Bukittinggi, Indonesia
3235	92.74	10		AIR Gauhati, India
	92.74	0.25	VL8AS	R. Milne Bay, Papua
3238	92.65			Urumchi, China
3240	92.59	0.3		Beira, Moçambique
	92.59	50		Baghdad, Iraq
	92.59	0.2	HCJM1	R. Turismo, Ecuador
	92.59	1	OBX4U	R. América, Peru
	92.59	0.075		R. Nickerie, Surinam
3241	92.56	1	YDR3	Ambon, Indonesia
	92.56	1		Sibolga, Indonesia
3242	92.54	10		Abidjan, Ivory Coast
3245	92.45			Chengtu, China
	92.45	0.25	VL8BK	R. Kerema, Papua
	92.45	1	ZYL23	R. Educ. Palmares, Br.
	92.45	1	YVKT	R. Libertador, Ven.
3250	92.31	20		SABC, South Africa
	92.31	1	YDO	Bandjarmasin, Indonesia
	92.31	1	OCX7D	R. Collasuyo, Peru
	92.31	0.4	OAZ4G	R. La Oroya, Peru
3255	92.16	10	ELBC	Liberian Bc. Corp, Lib.
	92.16	1	ZYH35	R. Assunção, Br.
	92.16	0.5	ZYN62	R. Cl. de Marilia, Br.
	92.16	1	YVQL	La Voz del Tigre, Ven.
3260	92.02	4		R. Niger, Niger
	92.02			Kweiyang, China
3265	91.87	25		R. Clube de Moçambique
	91.87	1	ZYR92	R. Ribeirão Preto, Br.

kHz	m	kW	Call	Stations & Countries
3265	91.87	1	ZYK21	R. Tamandaré, Br.
	91.87	2	ZFY	R. Demerara, Guiana
	91.87	0.5	HCRO7	R. Orelana, Ecuador
	91.87	1	YVOC	R. Nirgua, Ven.
3268	91.78	1		R. Timor, Timor
3270	91.75	4		R. Dahomey, Dahomey
	91.75	20/240		R. Peking, China
3272	91.69	2	CR6RP	R. Cl. do Cuanza Sul, An
3275	91.60	1	ZYR31	Baurú R. Clube, Br.
	91.60	1	YVMC	R. Mara, Ven.
3277	91.55	1		R. Kashmir, India
	91.55	7.5		Djakarta, Indonesia
3280	91.40	5		Grenada, Windward Isl.
		0.5	CP117	R. Riberalta, Bolivia
	91.40	1	OBX1E	R. San Miguel, Peru
3284	91.35	10	VRM9	Suva, Fiji Islands
3285	91.32	20		SABC, South Africa
	91.32		HISD	R. TV Dominicana
	91.32	1		Emis. Educ. Rural, Br.
	91.32	1	YVLE	R. Puerto Cabello, Ven.
3286	91.26	1	YDG6	Madiun, Indonesia
	91.26	2.5	DUB4	Philipp. Bc. Sce, Phil.
3288	91.24	30		Tananarive, Malagasy Rep
3290	91.19	0.04	ZOE	Tristan da Cunha
	91.19	20/240		R. Peking, China
	91.19	1	HCVN7	La Voz del Napo, Ec.
	91.19	0.5	OBZE4	R. Cultura, Peru
3295r	91.05	1	CR6RO	R. Clube do Bie, Angola
	91.05	10		Lusaka, Zambia
	91.05	10/100	VUD	AIR Delhi, India
	91.05	7.5	YDY2	Samarinda, Indonesia
	91.05	1	ZYM22	R. Cult. Sergipe, Br.
	91.05	1	ZYX28	R. Educ. Rural, Br.
	91.05	1	ZYV75	R. Educ. de Uberlandia,Br.
	91.05	1.5	HCJX6	Voz del Agoyan, Ec.
	91.05	1	YVOG	R. Trujillo, Ven.
3300	90.91	4		Libreville, Gabon
	90.91	1		Belize, Honduras (Br)
	90.91	0.45	OBX4Y	R. Junin, Peru
3305	90.77	10	VL8BD	R. Daru, Papua
	90.77	1	DZCA	NCDAF Philippines
	90.77	1	YVKX	La Voz de la Patria, Ven.
3306	90.73	100		Gwelo, Rhodesia
3308r	90.70	1.5	HCHA2	Ondas Quevedanas, Ec.
3310	90.63	0.25		Quelimane, Moçambique
3315	90.50	10		AIR Bhopal, India
	90.50	4		R. Martinique, Martinique
	90.50	1	ZYL21	R. Gazeta de Alagoas, Br.
	90.50	0.25	ZYV63	R. Itatiaia, Brazil
	90.50	2	HCRP7	R. Pastaza, Ecuador
	90.50	1	YVLI	R. Maracay, Ven.
3316	90.46	5/10		Freetown, Sierra Leone
3320	90.34	20		SABC, South Africa
	90.34	1	CP97	R Pirai, Bolivia
	90.34	1.5	HCHA2	Ondas Quevedeñas, Ec.
	90.34	1	OBZ41	R. Erpa, Peru
3322	90.30	2	VL9BA	R Bougainville, N. Guin.
3325	90.23	1	YDZ7	Palankaraya, Indonesia
	90.23	10	8FW34	Djajapura, Indonesia
	90.23	1	ZYJ21	R. Borborema, Br.
	90.23	0.1	ZYR220	R. Dif. Guarulhas, Br.
	90.23	5	YVRA	R. Monagas, Ven.
	90.23	1	YVPM	R. Occidente, Ven.
3326	90.20	7.5		Kaduna (NBC) Nigeria
3330	90.09	20		SABC, South Africa
†	90.09	3	CHU	Domn. Observatory, Can.
	90.09	5	OAX3Q	R. Ondas de Huallaga, Pe.
	90.09	1	OAX1M	R. Progreso, Peru
3331	90.06	4		Moroni, Comoro Isl.
	90.06	15		R. Maldives, Maldive Rep.
3335	89.95	1	YDI6	Djember, Indonesia
	89.95	1	YDN2	Banda Atjeh, Indonesia
	89.95	10	VL9CD	R. Wewak, New Guin.
	89.95	1	ZYF24	R. Marajoará, Br.
	89.95	0.5	ZYR59	Voz do Sertão, Br.
3336	89.95	4		Ziguinchor, Sénégal
3338	89.97	10		R Clube de Moçambique
3339	89.85	10		Zanzibar, Tanzania
3340	89.81	10	HCVA4	La Estación de la Alegria,
3345	89.68	2		R. Kashmir, India
	89.68	10	YDW1	Pontianak, Indonesia
	89.68	0.3	8FW40	Fak Fak, Indonesia
	89.68	1	DZB2	Call of the Orient, Phil.
	89.68	1		R. Alvorada, Br.
	89.68	1	YVPE	R. Central, Ven.
3346	89.68	120		Lusaka, Zambia
3350	89.55	4		Franceville, Gabon
	89.55	20		Ejura, Ghana
	89.55			Urumchi, China
	89.55	1	CP103	R.27 de Diciembre, Bol.

kHz	m	kW	Call	Stations & Countries
3350	89.55	0.5	HCIE1	R. Cotacachi, Ec.
	89.55	1	OAX5J	R. Independencia, Peru
3355	89.42	1	CR6RB	R. Ecclesia, Angola
	89.42	10		Nampula, Moçambique
	89.42	10		AIR Kurseong, India
	89.42	1	YDI20	Sumenep, Indonesia
	89.42	20		R. Noumea, New Caled.
	89.42	0.25	HIBD	La Voz Romana, Dom. R.
	89.42	1	ZYV30	R. Dif. Brasileira, Br.
	89.42	1	OBX4Z	R. Luz, Peru
	89.42	1	YVLC	R. Valencia, Ven.
3356	89.40	10		Gaberones, Botswana
3360	89.29	1	TGVN	La Voz Nahualá, Guat.
	89.29	0.5	OAX3D	R. Huánuco, Peru
3365	89.15			Lanchow, China
	89.15	10/100	VUD	AIR Delhi, India
	89.15	0.5	8FW5	Manokwari, Indonesia
	89.15	2.5		R. Angkatan, Indonesia
	89.15	1	HIRL	R. Exitos, Dom. Rep.
	89.15	0.5	ZYS45	R. Dif. de Paraná, Br.
	89.15	1	YVPM	R Tovar. Ven.
3366	89.12	10		Accra, Ghana
	89.12	0.25		Nampula, Moçambique
3370	89.02	4		R. Université, Mal. Rep.
	89.02	0.5	CP85	R. Universidád, Bolivia
3373	88.94	10		R. Clube de Moçambique
3375	88.89	10	CR6RZ	Emiss. Oficial, Angola
	88.89	10		AIR Gauhati, India
	88.89	1	YDK7	Djambi, Indonesia
	88.89	1	HIAD	R. San Jaun, Dom. Rep.
	88.89	1	ZYK28	R. Olinda Pernambuco, Br.
	88.89	1.5	HCRE1	R. Espejo, Ecuador
	88.89	1	YVMI	La Voz de la Fé, Ven.
3378	88.81	0.25	HCDY4	R. Iris, Ecuador
3380	88.76	10		Blantyre, Malawi
	88.76	1	TGCH	R. Chortis, Guat.
	88.76	0.25	CP109	R. Reyes, Bolivia
	88.76	1	OAX1O	R. Chiclayo, Peru
3385	88.63	10		Colombo, Ceylon
	88.63	0.5		Kupang, Indonesia
	88.63	10	VL9BR	R. Rabaul, New Guin.
	88.63	0.5		R Clube Teresina, Br.
	88.63	1	HIDA	R. Hit Musical, Dom.Rep.
	88.63	4		Cayenne, Fr. Guiana
	88.63	1	OBZ4M	La Voz del Valle, Peru
	88.63	10	YVQI	R. Barcelona, Ven.
3390	88.50	10		Kabul, Afghanistan
	88.50	0.15	CP89	R. Santa Ana, Bolivia
	88.50	2	HCOT1	R. Zaracay, Ecuador
	88.50	0.3	OCX4R	R. Industrial, Peru
3395	88.37	0.25	CR6RF	R. Cl. de Benguela, An.
	88.37	1	YDP2	Medan, Indonesia
	88.37	0.5	8FW50	Biak, Indonesia
	88.37	1	HIAZ	R. Santiago, Dom. Rep.
	88.37			R. Dif. Goiania, Br.
	r88.37			R. Cl. de Conquista, Br.
	88.37	1		R. Tapuyo de Mossoro,Br.
	88.37	5	HCSK7	R. Federación, Ecuador
	88.37	0.35	PZX4	R. Suriname, Suriname
	88.37	1	YVOK	R. Universidád, Ven.
3396	88.34	0.25		Kaduna (NBC), Nigeria
	88.34	100		Gwelo, Rhodesia
			3400-3900kHz	
3400	88.24			Fukien, China
	88.24			R. Colosal, Ecuador
3405r	88.11	1	HIAZ	R. Santiago, Dom. Rep.
3448	87.00	0.75		Purwokerto, Indonesia
3450	86.96	120/240		R. Peking, China
3465	86.58	1		Pakanbaru, Indonesia
3520	85.23	0.2	HCCY4	R. Escuelas Radiales, Ec.
	85.23		HCRS4	R. Sensacion, Ec.
3335	84.87			Fukien, China
3570r	84.03	0.5	HCOS4	Voz del Rio Carrizal, Ec.
3615	82.99	0.4	HCGS6	R. Pillaro, Ecuador
3630	82.64	0.5	HCOS4	Voz del Rio Carrizal, Ec.
3678	81.57	0.5	OE3XNB	Amateur Radio, Austria
3704	80.99	1	CR6RD	R. Clube Huambo, Angola
3755	79.90	0.4	HCVH6	R. Latacunga, Ecuador
3824	78.46	0.1	7PA22	Maseru, Lesotho
3830	78.33	20/240		R. Peking, China
3835	78.23	0.35	HCWN1	La Voz del Triunfo, Ec.
3883r	77.25	5	CR4AA	R. Cl. Cabo Verde
			3900-4000kHz (75 metre band)	
3900	76.92	20/240		R Peking, China
	76.92			Fukien, China
	76.92			Hailar, Inner Mongolia
3905	76.83	10/100	VUD	AIR Delhi, India
	76.83	0.5	YJB4	Port Vila, New Hebrides
3910	76.73	1	CR4AC	R. Barlavento, Cape Verde
	76.73	10/1		Tokyo (FEN), Japan
	76.73	5	HLK51	Seoul, Korea

kHz	m	kW	Call	Stations & Countries
3915	76.64	20/240		R. Peking, China
	76.64	0.3	YDZ	Ternate, Indonesia
	76.64	7.5		BBC Tebrau, Malaysia
	76.64	10		Quetta, Pakistan
3925	76.43	10/100	VUD	AIR Delhi, India
	76.43	1		Bogor, Indonesia
	76.43	50	JOZ	NSB, Tokyo, Japan
	76.43	10	VLK3	Port Moresby, Australia
3930r	76.34	1	CR4AC	R.Barlavento, Cape Verde
	76.34			Chifeng, Inner Mongolia
	76.34			Huhehot, Inner Mongolia
3935	76.24	20/240		R. Peking, China
	76.24	5	YDH2	Semarang, Indonesia
	76.24	35/100		Okinawa(VOA), Ruy.Isl.
3945	76.05	1	YDU2	Denpassar, Indonesia
	76.05	0.3	YDZ2	Ternate, Indonesia
	76.05	10	JOZ4/5	NSB, Sapporo, Tokyo,Jap.
	76.05	0.5	DXB3	Cotabato, Philippines
3950	75.95			Sining, China
3952	75.90	100		BBC London, Gt Britain
	75.90	20		SABC, South Africa
3958	75.78	0.5		Stanley, Falkland Islands
3960	75.76	10		R. Free Europe, Germany
	75.76	5	CR4AA	R. Clube Cabo Verde
	75.76	20/240		R. Peking, China
	75.76			Urumchi, China
	75.76	0.8		Kendari, Indonesia
	75.76	10	YDL2	Padang, Indonesia
	75.76	100		Baghdad, Iraq
3965	75.66	20		SABC, South Africa
3970	75.57	20		R. Free Europe, Germany
	75.57	1	CR6SG	R. Clube Huila, Angola
	75.57	8		R. Buea, Cameroon
	75.57			Huhehot, Inner Mongolia
3972	75.52	25		Ulan Bator, Mongolia
3975	75.47	2/10	YDI1/2	Surabaja, Indonesia
	75.47	0.6	HCSN6	R. Sira, Ecuador
3980	75.38	8		Munich (VOA), Germany
	75.38	15		Baku, USSR
3985	75.28	250		Schwarzenburg, Switz.
	75.28	0.5	9UZ22	R. Cordac, Burundi
	75.28	0.25	8FW6	Merauke, Indonesia
	75.28	0.3		Seoul (VUNC), Korea
	75.28	1	HCER5	Esc.Radiofónicas Pop,Ec.
3986	75.27	100		Lagos (NBC), Nigeria
3990	75.19	20		R. Liberty, Germany
	75.19	250		Monrovia (VOA), Liberia
	75.19	1		AFNT, Taiwan
3995	75.09	10		R. Free Europe, Germany
	75.09	5		R. Roma, Italy
	75.09	0.5		Djajapura, Indonesia
	75.09	5	VQO4	Solomon Islands
	75.09	0.36	HCJA5	La Voz del Rio Tárqui, Ec.
3997	75.05	20		SABC, South Africa
3998	75.03	100		R. Iran, Iran
3999	75.02	10		Godthåb, Greenland
			4000-4750kHz	
4000	75.00			Tengkou, China
	75.00			Ulan Hot, Inner Mongolia
4008	74.84	15		Frunze, USSR
†4010	74.80		NPG	San Francisco, USA
4020	74.63	120/240		R. Peking, China
4035	74.35	20/240		R. Peking, China
	74.35			Llasa, Tibet
4040	74.26	50		Magadan, USSR
	74.26	50		Erevan, USSR
4050	74.07	50		R. Moscow, USSR
	74.07	20/240		R. Peking, China
4055	73.98	50		Petropavlovsk, USSR
4069	73.74			Huehot, Inner Mongolia
4080	73.53	50		Semipalatinsk, USSR
4085	73.44	50		Ulan Bator, Mongolia
4100	73.17	50		Kzyl Orda, USSR
4110	72.99			Urumchi, China
4130	72.64	120/240		R. Peking, China
4200	71.43	120/240		R. Peking, China
4220	71.09	20/240		R. Peking, China
	71.09			Urumchi, China
4250	70.59	120/240		R. Peking, China
†4265	70.34	5	DAM	Elmshorn, Germany
†4271	70.24		CCV	Valparaiso, Chile
4273	70.21	120/240		Pyongyang, Korea (D.R.)
4310	69.61			Chimkent, USSR
4380	68.49			Fukien, China
4395	68.26	50		Yakutsk, USSR
4420	67.87	50		Kokchetav, USSR
4425	67.80	50		Dudinka, USSR
4460	67.26	120/240		R. Peking, China
†4478	67.00		VIX4	Sydney, Australia
4485	66.89	50		Petropavlovsk, USSR
	66.89	50		Vladivostok, USSR
4500	66.67			Urumchi, China
†	66.67	1	VNG	Lyndhurst, Australia
4510	66.52	50		Andizhan, USSR
4520	66.37	0.15	4VEL	Voix d'Nordeste, Haiti
†4525	66.30	5	DIZ	Nauen, Germany (D.R.)
	66.30			Silinhot, China
†	66.30		NPM	Honolulu, Hawaii
4544	66.02	50		Alma Ata, USSR
4560	65.79	0.2	VSI8	Grand Turk, Turk Island
4610	65.08	50		Khabarovsk, USSR
4620	64.94	120/240		R. Peking, China
4635	64.72	50		Dushanbé, USSR
4650	64.43	1	HCAK2	R. Dif. Ecuador, Ec.
4680	64.10	1	HCWE1	R. Nac. Espejo, Ec.
4684	64.05			Hanoi, Viet. (Dem. Rep.)
4695	63.89	20/240		R. Peking, China
4707	63.73	1	CR6RS	R. Cl. do Lobito, An.
	r63.73	1	HJDX	Ecos del Pasto, Colombia
4712	63.48	0.25	HCAV3	R. Luz y Vida, Ec.
4715	63.56	0.25/0.45	CR4AB	R. Clube Mindelo, C. Ve.
4720r	63.51	0.25/0.45	CR4AB	R. Clube Mindelo, C. Ve.
	63.51	0.2	HCLA2	R. América, Ec.
4725	63.49	50	XZK2	Rangoon, Burma
	r63.49	0.2	HCEH3	R. Nacional, Progreso, Ec.
4740	63.29	30		R. Maldives, Maldive Rep.
			4750-5060kHz (60 metre band)	
4750	63.16	10		Lubumbashi Congo (D.R.)
	63.18			Huhehot, Inner Mongolia
	63.16	20	YDQ4	Makassar, Indonesia
	63.16		HIFI	R. HIFI, Dom. Rep.
	63.16	0.25	HCBK2	R. El Mundo, Ecuador
4755	63.09	0.25	HRMD	R. Yoro, Honduras Rep.
	63.09	1	HRD4	R. Oriental, Hon. Rep.
	63.09	1	ZYY3	R. Brazil, Brazil
	r63.09	5	CP62	Radioem. Bolivia, Bolivia
	63.09	0.1	ZYF23	R. Dif. Maranhão, Br.
	63.09	1	HJKC	Em. Nuevo Mundo, Col.
	r63.09	1	HJCN	R. Reloj, Colombia
	63.09	0.5	HCLJ6	La Voz de Bolivar, Ec.
4756	63.08	0.5	VRH4	Suva, Fiji Islands
	63.03	2.5		Dzambul, USSR
	63.03	10/100	VUD	AIR Simla, India
4760	63.03	15		AIR Delhi, India
	63.03	5	CP62	Radioem. Bolivia, Bolivia
	63.03	2	YVPP	R Frontera, Ven.
4762	63.00	10		R. Clube de Moçambique
	63.00	50		Ulan Bator, Mongolia
	63.00	0.25	OCX4W	R. Inca, Peru
4765	62.95	50		R. TV Congolaise, Congo
	62.95	1	PRK6	R.Dif.Pocos de Caldas,Br.
	62.95	1	ZYN37	R. Feira de Santana, Br.
	62.95	1	HJDY	R. Catatumbo, Colombia
	62.95	5	HCAJ2	C.R.E, Ecuador
4770	62.89	0.5	CR6RG	R Diamang, Angola
	62.89	10		R. St. ELWA, Liberia
	62.89	20		Djakarta, Indonesia
	62.89	120/240		R. Pyongyang, Korea
	62.89	1	HRLC	R. Continental, Hon. Rep.
	62.89	0.4	HCMX4	R. Cenit, Ecuador
	62.89	1	HCJF2	R Guayaquil, Ecuador
	62.89	0.5	OAX2G	R. Cajamarca, Peru
	62.89	1	YVQE	R. Bolivar, Ven.
4775	62.84	100		R. Afghanistan Afghanistan
	62.84	10		AIR Gauhati, India
	62.84	7.5	YDK6	Djambi, Indonesia
	62.84	1		Sibolga, Indonesia
	62.84	1.5	CP84	R. Los Andes, Bolivia
	62.84	5	ZYH29	R. Dragão do Mar, Br.
	62.84	5	ZYR81	R. Progresso, Br.
	62.84	1	HJKW	Emis. Kennedy, Col.
	62.84	0.2	CHEH3	R. El Progreso, Ec.
4777	62.80	30		Libreville, Gabon
4780	62.76	50		Moscow, USSR
	62.76	4		R. Djibouti, Afars & Issas
	62.76	1	HRRZ	R. Juticalpa, Honduras
	62.76	1	HCMQ1	R. Atahualpa, Ecuador
	62.76	1	YVLA	La Voz de Carabobo, Ven.
4783	62.72	18		R. Mali, Mali
4784	62.71	1	TIRHB2	R. Popular, Costa Rica
4785	62.70	50		Baku, USSR
	62.70	10		Dar Es Salaam, Tanzania
	62.70			Kunming, China
	62.70	1	CP74	R. Indoamérica, Bolivia
	62.70	1	ZYY20	R. Cult. Caiari, Br.
	62.70	0.5	ZYM8	R. Ribamar, Br.
	62.70	1	HJLW	Ecos. Combéima, Col.
	62.70	2	HCLV3	R. Luz y Vida, Ec.
	62.70	1	OAX3V	R. Horizonte, Peru

kHz	m	kW	Call	Stations & Countries
4787	r62.66	1	TIRHB2	R. Popular, Costa Rica
4790	62.63	10		Penang, Malaysia
	62.63	1	HRFS	R. Primero de Mayo, Hon.
	r62.63	1	HJLW	Eccos Combéima, Col
	62.63	1	HCVP2	R. Sistema Atalaya, Ec.
	62.63	0.4	OAX5X	R. Nazca, Peru
	62.63	5	YVON	Ondas Porteñas, Ven.
4795	62.57	50		Ulan Ude, USSR
	62.57	10	CR6RG	R. Com. de Angola, An.
	62.57	4		R. Brazzaville, Congo
	62.57	1	HIAS	Onda Musical, Dom. Rep.
	62.57	1	CP73	R. Nueva América, Bol.
	62.57	1	ZYF37	R. Congonhas, Br.
	62.57	0.5	ZYP27	R. Copacabana, Brazil
	62.57	2	PRI4	R. Tabarajá, Brazil
	62.57	1	HJCN	R. Reloj, Colombia
4797	62.55	0.5	HCAS4	La Voz de los Caras, Ec.
4800	62.50	10		AIR Hyderabad, India
	62.50	0.5	HCMB5	R. Pop Independiente, Ec.
	62.50		OCY4S	R. 1550, Peru
	62.50	0.5	OBX7C	R. Onda Azul, Peru
	62.50	10	YVMO	R. Lara, Ven.
4802	r62.47	4		R. Brazzaville, Congo
4804	62.45	5		Kisumu, Kenya
4805	62.43	50	YDB4	Djakarta, Indonesia
	62.43	5	YDV	Kupang, Indonesia
	62.43	0.25	CP114	R. San Miguel, Bolivia
	62.43	5	ZYS8	R. Dif. do Amazonas, Br.
4807	62.41	4		St. Denis, Réunion
	62.41	10		R. Clube de São Tomé
	r62.41			R. Pop de Cuenca, Ec.
4810	62.37	20		SABC, South Africa
	62.37	1		Danang, Vietnam
	r62.37	0.5	CP56	R. Onkoi, Bolivia
	62.37	1	HCLS3	R. Coro de Sta. Cecilia, Ec.
	62.37	2	YVMG	R. Popular, Ven.
4815	62.31	4		Ouagadougou, Upper Volta
	62.31	0.5	CP56	R. Onkoi, Bolivia
	62.31	1	ZYH27	R. Icarema Fortaleza, Br.
	62.31	1	ZYP33	Petropolis R. Dif, Br.
	62.31	1	OAX8X	R. Amazonas, Peru
	62.31	1	OAX5U	LaVoz de Haumanga, Peru
4820	62.24	50		Magadan, USSR
	62.24	10	CR6RZ	R. Angola, Angola
	62.24	3.1		R. Gambia, Gambia
	62.24	10	VUC	AIR Calcutta, India
	62.24	1	YDW	Pontianak, Indonesia
	62.24	5	HRVC	Voz Evangélica, Hon.Rep.
	62.24	0.2	XWJG	Guadalajara, Mexico
	62.24	0.45	HCRT6	R. Paz y Bien, Ec.
	62.24	1	HCRF4	R. Canal Manabita, Ec.
	62.24	0.45	OAX7K	R. Puno, Peru
	62.24	1	YVRC	La Voz de Apure, Ven.
4823	62.21			Hanoi, Viet. (Dem. Rep.)
4825	62.18	15		Ashkabad, USSR
	62.18	1	CP70	R. Grigotá, Bolivia
	62.18	0.5	ZYE7	R. Educ. de Parnaiba, Br.
	62.18	1	ZYV56	R. Cl. de Varginha, Br.
	62.18	1	HJHC	R. Nariño, Colombia
	r62.18	0.25	HCAV3	R. Luz y Vida, Ecuador
	62.18	1	OAX8R	R. San José, Peru
	62.18	0.5	OAX6Z	Moquegua, Peru
4828	62.14	100		Gwelo, Rhodesia
4830	62.11	5	HSKB	R. Thailand, Thailand
	62.11	0.5	HCJS1	Ondas del Angel, Ec.
	62.11	0.5	OAX3W	R. Tingo Maria, Peru
	62.11	4	OBX5I	R. Apurimac, Peru
	62.11	1	YVOA	La Voz del Táchira, Ven.
4832	r62.09	1	CP70	R. Grigota, Bolivia
4835	62.05	18		R. Mali, Mali
	62.05	10/20		R. Malaysia, Sarawak
	62.05	1	ZYA1	R. Dif. Roraima, Br.
	62.05	0.5	ZYV37	R. Triângulo Mineiro, Br.
	62.05	1	HJAM	R. Buenaventura, Col.
	62.05	1	HCAM4	La Voz del Valle, Ec.
	62.05	0.35	OAX7T	R. Sicuani, Peru
	62.05	0.5	OAZ4J	R. Sudamericana, Peru
4839	62.00	10		R. Bukavu, Congo (D.R.)
4840	61.98	0.25	CR6RY	R. Cl. do Cuanza Sul, An.
	61.98	10	VUB	AIR Bombay, India
	61.98	1	OBX5E	R. Andahuayalas, Peru
	61.98	1	OAX8F	R. Atlántida, Peru
	61.98	1	YVOI	R. Valéra, Ven.
4845	61.92	10		Gaberones, Botswana
	61.92	50		Kuala Lumpur, Malaysia
	61.92	0.75	HRVK	R. Católica, S. Isidro, Hon.
	61.92	1	ZYU8	R. Dif. Teresina, Br.
	61.92	1	HJGF	R. Bucaramanga, Col.
	61.92	0.38	HCRM3	R. Cultural Machala, Ec.
	61.92	1	OAXIX	La Voz del Chira, Peru
4850	61.86	1	CR6RU	R. Cl. do Uige, Angola
4850	61.86	30		R. Mauritania, Mauritania
	61.86	10		Forest Side, Mauritius
	61.86	20/240		R. Peking, China
	61.86	2		AIR Kohima, India
	61.86	5	CP72	R. Fides, Bolivia
	61.86	0.2	HCCV3	Ondas del Zamora, Ec.
	61.86	1	YVKF	Ondas Populares, Ven.
4855	61.79	10		R. Biafra, Biafra
	61.79	20		R. Clube de Moçambique
	61.79	10	YDK	Palembang, Indonesia
	61.79	1	HRVA	R. Corona, Hon. Rep.
	61.79	1	CP66	R. Centenario, Bolivia
	61.79	1	CP59	R. Cobija Bolivia
	61.79	1	ZYR61	R. Dif. de Taubaté, Br.
	61.79	1	HJGT	R. Neiva, Colombia
	61.79	0.35	HCMA1	R. Marañon, Ecuador
	61.79	0.5	OAX8I	R. La Hora, Peru
	61.79	0.5	OCX7E	Pto. Maldonado, Peru
4860	61.73	20/240		R. Peking, China
	61.73	10/100	VUD	AIR Delhi, India
	61.73	1		R. Kashmir, India
	61.73	1	OCX4B	R. Callao, Peru
	61.73	1	YVQE	R. Mundo Maracaibo, Ven.
4865	61.66	1	CSA67	Ponta Delgada, Azores
	61.66	25		R. Clube de Moçambique
	61.66	10		Berakas, Brunei
	61.66	20/240		R. Peking, China
	61.66	2.5	PRC5	R. Club do Pará, Br.
	61.66	1	HCXX4	R. Dif. Cenit, Ec.
	61.66	1	HCCE1	R. Punto 63, Ec.
4867	61.64	1	CR6RN	R. Cl. de Angola, An.
4870	61.60	30		Cotonou, Dahomey
	61.60	10		Colombo, Ceylon
	61.60	2	TGQH	R. Sta. Cruz, Guat.
	61.60	5	HCGM7	R. Rio Amazonas, Ec.
	61.60	0.5	OCX4T	R. Obispado, Peru
	61.60	5	YVKP	R. Tropical, Ven.
	r61.60	5		R. Cultura, Ven.
4872	61.58	10	8FW20	Sorong, Indonesia
4875	61.54	0.25		Porto Amélia, Moçambique
	61.54	20/100		SABC, South Africa
	61.54	1	ZYZ30	R. Jornal do Brasil, Br.
	61.54	1	HJDE	R. Villavicencio, Col.
	61.54	5	HCHE4	La Voz Esmeraldas, Ec.
	61.54	0.45	HCHW2	R. Rey, Ecuador
4877	61.52	20/80		Saigon, Vietnam
4880	61.48	10		Kinshasa, Congo (D.R.)
	61.48	10		AIR Lucknow, India
	61.48	1	HIJP	R. Comercial, Dom. Rep.
	61.48	0.5	HRQN	La Voz del Atlántico, Hon.
	61.48	5	HCWE1	R. Nac. Espejo, Ec.
	61.48	1	OCX4E	R. Once Sesenta, Peru
	61.48	10	YVMS	R. Universo, Ven.
4885	61.45	50		Novosibirsk, USSR
	61.45	10		Nairobi, Kenya
	61.45	1	CP77	R. Sararenda, Bolivia
	61.45	1	ZYD9	R. Acreana, Brazil
	61.45	1	ZYV50	R. Cultura do Poços, Br.
	61.45	1	ZYG26	R. Pioneira de Teresina,
	61.45	1	HJIG	Ondas del Meta, Col.
	r61.45		HJIQ	La Voz del Llano, Col.
	61.45	1	OAX5V	R. Villarica, Peru
4890	61.35	25		Dakar, Sénégal
	61.35	10	VLT/K4	Port Moresby, Australia
	61.35	1	HRVL	R. Lux, Hon. Rep.
	61.35	5	YVKB	R. Dif. Venezuela, Ven.
4895	61.29	50		Ashkabad, USSR
	61.29	50		Tyumen, USSR
	61.29	2.5	9UZ24	R. Cordac, Burundi
	61.29	0.25		Quelimane, Moçambique
	61.29	10		AIR Kurseong, India
	61.29	5	PRF6	R. Baré, Brazil
	61.29	1	ZYN22	R. Cultura da Bahia, Br.
	61.29	0.25	HCRU3	Ondas Orenses, Ecuador
	61.29	1	OAZ4T	R. Chanchamayo, Peru
4896	61.27	1	CR6RO	R. Cl. do Bie, Angola
4900	61.22	50		Alma Ata, USSR
	61.22	4		Conakry, Guinea
	61.22	10		Colombo, Ceylon
	61.22	1	YDS6	Gorontalo, Indonesia
	61.22	0.5	HROM	La Voz del Ulúia, Hon.
	61.22	0.42	HCVS6	La Voz de Sasquisili, Ec.
	61.22	10	YVNK	R. Juventud, Ven.
4902	61.20	0.5	OAZ8A	R. Inst. Linguistico, Peru
4904	61.18	30		Fort Lamy, Chad
4905	61.16	240		R. Peking, China
	61.16	5	ZYZ20	R. Relogio, Brazil
	61.16	3	HCVZ7	La Voz del Zamora, Ec,
4906	61.15		HJAG	Em. Atlantico, Col.
4907	61.14	15		R. Cambodia, Cambodia
4908	61.12	1	CE490	R. Transandina, Chile

kHz	m	kW	Call	Stations & Countries
4910	61.10	1	YDM2	Bukittinggi, Indonesia
	61.10	1	YDX	Tdj Pinang, Indonesia
	61.10	1	HIN	R. HIN, Dom. Rep.
	61.10	5	HCMJ1	Emis. Gran Colombia, Ec.
	61.10	0.5	OAX2K	R. Libertad, Peru
	61.10	1	OBX7V	R. Tahuantisuyo, Peru
	61.10	10	YVPN	Esc. Radiofónicas, Ven.
4911	61.08	10		Lusaka, Zambia
4912	61.07	2	VSZ2	Tarawa, Gilbert Islands
4914	61.05	0.25	HRSY	La Voz del Pacifico, Hond.
4915	61.03	10		Accra, Ghana
	61.03	100		Nairobi, Kenya
	61.03	1	CP88	R. Amboro, Bolivia
	61.03	1	ZYR60	R. Cult. de Araraquara,
	61.03	2	ZYE2	R. Dif. de Macapá, Br.
	61.03	1	ZYL20	Emis.RioSãoFrancisco,Br.
	61.03	1	HJSG	R. Guatapuri, Colombia
	61.03	0.5	OAX2H	R La Hora, Peru
4916	61.03	3	HCAH3	R. El Trebol, Ecuador
4917	61.01	10		Quetta, Pakistan
4920	60.98	10	VUM	AIR Madras, India
	60.98	10	VLM4	Brisbane, Australia
	60.98	0.15	TGRY	V. San Raymundo, Guat.
	60.98	1	HRPL	R. Progreso, Hon. Rep.
	60.98	1		La Voz de la Peninsula,Ec.
	60.98	1	OBX7H	R. Ondas del Titicaca, Pe.
	60.98	7.5	YVKR	R. Caracas, Venezuela
4923	60.94	5	HCRQ1	R. Quito, Ecuador
4925	60.90	25		R. Clube de Moçambique
	60.90	1	ZYA6	R. Icarema, Brazil
	60.90	1	ZYV32	R. Industrial, Brazil
4926	60.90	5	EAJ206	R. Ecuatorial, Guinea
4927r	60.88	1	YDK6	Djambi, Indonesia
4930	60.85	50		Erevan, USSR
	60.85	1	HIBE	R. Mil, Dom. Rep.
	60.85	1	HRVS	R. Católica, Hon. Rep.
	60.85	10	HCCR1	Casa de la Cultura, Ec.
	60.85	1	YVOT	R. Junin, Venezuela
4932	60.83	10		Benin City (NBC), Nigeria
4934	60.80	10		Nairobi, Kenya
	r60.80			Surakarta, Indonesia
	60.80	0.25	OAX5Q	R.ConsejoProvincial,Peru
4935	60.80	1	CR5RE	R. Clube de Malanje, An.
	60.80	1	CP110	R. Norte, Bolivia
	60.80	1	ZYI21	R. Poti, Brazil
	60.80	1	OAX9E	R. Tropical, Peru
4938	60.75	25		R. Sanaa, Yemen
4940	60.73	50		Kiev, USSR
	60.73	25		R. Abidjan, Ivory Coast
	60.73	10		AIR Gauhati, India
	60.73	0.5	4VM	R. Dif. Haitienne, Haiti
	60.73	10	HCXZ1	R. Dif. Nacional, Ec.
	60.73	0.5	OAX6N	R. Misti, Peru
	60.73	0.5	OAZ4R	R. San Juan, Peru
	60.73	10	YVPA	R. Yaracuy, Ven.
4945	60.67	20		SABC, South Africa
	60.67	2.5	YDA3	Bandung, Indonesia
	60.67	0.5	DZB6	Nat. Teachers Coll, Phil.
	60.67	1	ZYO25	R. Capixaba, Brazil
	60.67	0.25	ZYF22	R. Dif. Mearim, Br.
	60.67	1	ZYE23	R. Educ. Bragança, Brazil
	60.67	2.5	HJDH	R. Colosál, Colombia
	60.67	0.4	OAZ4I	R. Huacho, Peru
4946	60.65	10		Nampula, Moçambique
4950	60.60	5		Nairobi, Kenya
	60.60	10		Peshawar, Pakistan
	60.60	10/20		R. Malaysia, Sarawak
	60.60	0.25	HCCU1	R. América, Ecuador
	60.60	0.5	OAX7I	R. Madre de Dios, Peru
	60.60	1	YVMM	R. Coro, Venezuela
4955	60.54	10	YDN3	Banda Atjeh, Indonesia
†	60.54		NPN	Guam
	60.54	0.5	CP105	R. Ibare, Bolivia
	60.54	0.25		R. Caiari, Brazil
	60.54	2	PRF7	R. Cult. de Campos, Br.
	60.54	50	HJCQ	R. Nacional, Colombia
	60.54	1	HCEM4	R. Costa Azul, Ecuador
	60.54	1	OAX5S	R. Amauta, Peru
4957	60.52	50		Anadyr, USSR
4958	60.51	50		Baku, USSR
	60.51	0.25		Nampula, Moçambique
4960	60.48	10		Tananarive, Malagasy
	60.48	120/240		R. Peking, China
	60.48	10/100	VUD	AIR Delhi, India
	60.48	0.2	HCPH5	La Voz del Chofer, Ec.
	60.48	0.5	OAX1S	R. Lambayeqúe, Peru
	60.48	1	YVQA	R. Sucre, Ven.
4965	60.42	20		SABC, South Africa
	60.42	2.5		Lusaka, Zambia
	60.42	1.5	CP90	R. Juan XXIII, Bolivia
	60.42	2.5	HJAF	R. Santa Fé, Colombia

kHz	m	kW	Call	Stations & Countries
4967	60.40	10		R. Kuwait, Kuwait
4968	60.38	10		Colombo, Ceylon
4970	60.36	5	9WD215	Kota Kinabalu, Sabah
	60.36	3	HCGH1	R. Tárqui, Ecuador
	60.36	1	OBX1Q	R. San Juan, Peru
	60.36	1	OCX7D	Puno, Peru
	60.36	10	YVLK	R. Rumbos, Venezuela
4972	60.33	30		R. Yaoundé, Cameroon
4973r	60.32	1.5	CP90	R. Juan XXIII, Bolivia
4975	60.30	50		Blagovechensk, USSR
	60.30	50		Dushanbé, USSR
	60.30			Foochow, China
	60.30	1	ZYP27	R. Copacabana, Brazil
	60.30	2.5/5	ZYY9	R. Timbira, Brazil
	60.30	10	HJJG	R. Internacionál, Col.
	60.30	5	OCX4H	R del Pacifico, Peru
4976	60.29	3/8		Kampala, Uganda
4977r	60.28		HIHZ	R. Boya, Dom. Rep.
4980	60.25	20		Ejura, Ghana
	60.25			Wuhan, China
	60.25	20	CP5	Em. del Estado, Bol.
	60.25	5	HCJC5	Ondas Azuayas, Ecuador
	60.25	0.3	OAX9I	R. Huallaga Central, Peru
	60.25	0.3	OBX7W	R. Maldonado, Peru
	60.25	10	YVOC	Ecos del Torbes, Ven.
4985	60.18	0.25	CR6RB	R. Ecclesia, Angola
	60.18	10		AIR Kurseong, India
	60.18	10		Penang, Malaysia
	60.18	10	CP75	La Cruz del Sur, Bolivia
	60.18	1	ZYR89	R. Aparecida, Brazil
	60.18	1.5	ZYZ15	Voz de Oeste, Brazil
	60.18	1	HCSK7	R. Federación, Ecuador
4990	60.12	50		Alma Ata, USSR
	60.12	20		Lagos (NBC), Nigeria
	60.12			Changsha, China
	60.12	10		AIR Bhopal, India
	60.12	1	HCSJ1	R. Xavier, Ecuador
	60.12	1	OBX1O	R. Atlanta, Peru
	60.12	1	OBX7R	R. Triunfo, Peru
	60.12	10	YVMQ	R. Barquisimeto, Ven.
4994	60.08	50		Omdurman, Sudan
4995	60.06	5	ZYX2	R. Brazil Central, Br.
	60.06	1	OAZ4C	R. Andina, Peru
4996	60.05	50		Magadan, USSR
*5000	60.00	0.5	MSF	Teddington. Gt. Britain
*	60.00	1	IAM	Rome, Italy
*	60.00	5	IBF	Turin, Italy
*	60.00	20	RWN	Moscow, USSR
†	60.00	4	ZUO	Olifantsfontein, S. Africa
*	60.00		BPV	Peking, China
*	60.00	2	JJY	Tokyo, Japan
*	60.00	2	WWVH	Puunene, Hawaii
*	60.00	10	WWH	Fort Collins, USA
†	60.00	2	LOL	Buenos Aires, Argentina
5005	59.94	1	CR6RV	R. Cl. do Moxico, Angola
	59.94	0.25	OAX2S	R. Jaén, Peru
5010	59.88	4/30		R. Garoua, Cameroon
	59.88			Nanning, China
	59.88	0.15		Palu, Indonesia
	59.88	10		BFBS, Singapore
	59.88	1	HIMI	R. Cristal, Dom. Rep.
	59.88	0.4	OAX8V	R. Eco, Peru
	59.88	1	YVRW	R. Boconó, Ven.
5012	59.86	100		Gwelo, Rhodesia
5015	59.82	15		Arkhangelsk, USSR
	59.82	50		Vladivostok, USSR
	59.82	0.75	CR6RM	Moçamedes, Angola
	59.82	20/240		R. Peking, China
	59.82	5		Grenada, Windward Isl.
	59.82	1	CP48	R. Universo, Bolivia
	59.82	1	HCER5	Radiofónicas Pop, Ec.
	59.82	0.35	OAX7Z	R. Juliaca, Peru
5018r	59.79	0.2	YVNI	R. Carorá, Venezuela
5020	59.76	0.25		Quelimane, Moçambique
	59.76	4		R. Niger, Niger
	59.76	10		Colombo, Ceylon
	59.76	4	HJFW	Transm. Caldas,, Col.
	59.76	0.5	4VGS	R. Indépendance, Haiti
	59.76	10	YVKO	R. Nacional, Ven.
	59.76	1	YVNI	R. Carora, Ven.
5025	59.70	1	CR6RH	R. Clube Huila, Angola
	59.70	1	ZYX30	R. Dif. Aquidauna, Br.
	59.70	1		Voz Amazonia, Brazil
	59.70	3	HCOB5	R. Splendit, Ecuador
	59.70	0.3	OAX7Q	R. Quillabamba, Peru
5026	59.70	3.8		Kampala, Uganda
5027r	59.69	0.5	ZYK41	Emissora Rural, Brazil
5030	59.64	120/240		R. Peking, China
	59.64	20	YDP	Medan, Indonesia
	59.64	10/20		R. Malaysia, Sarawak
	59.64	1	HIBB	Voz de Papagayo,Dom.R.

kHz	m	kW	Call	Stations & Countries
5030	59.64	10	YVKM	R. Continente, Ven.
5035	59.58	1	CR6RW	R. Cl. de Cabinda, An.
	59.58	50		Alma Ata, USSR
	59.58	30		Bangui, Cen. African Rep.
	59.58	1	HROE	Voz de las Fronteras, Hon.
	59.58	1	ZYW22	R. Anhanguera, Brazil
	59.58	0.5	ZYO24	R. Espirito Santo, Br.
	59.58	0.75	HCVC3	R. Centinela del Sur, Ec.
	59.58	0.5	OBX7F	R. Ayaviri, Peru
	59.58	1	OAX6U	R. Ilo, Peru
5040	59.52	50		Tbilisi, USSR
	59.52	120/240		R. Peking, China
	59.52	50	XZK42	Rangoon, Burma
	59.52	0.5		Wamena, Indonesia
	59.52	0.15	4VCD	R. Capois la Mort, Haiti
	59.52	1	HCGB1	R. Reloj, Ecuador
	59.52	10	OCY4E	R. Mar, Peru
	59.52	1	YVQH	R. Maturin, Ven.
5041	59.51	10		Emis. da Guiné Port. Gu.
5042	59.50	1	CR6RF	R. Clube de Benguela, An.
5045	59.46	0.25	ZK5	Rarotonga, Cook Islands
	59.46	1	ZYP23	R. Imperial, Brazil
	59.46	5	CP38	La Voz del Altiplano, Bol.
5047	59.43	100		Lomé, Togo
	r59.43	20	YDJ1	Jogjakarta, Indonesia
5050	59.41	50		Petropavlovsk, USSR
	59.41	20		Dar es Salaam, Tanzania
	59.41	1	HJDW	La Voz de Medellin, Col.
	59.41	5	HCFF1	R. Jesús del Gran Poder,
	59.41	2	OAX8E	R. Loreto, Peru
	59.41	0.4	OAX1J	R. Tumbes, Peru
	59.41	2	YVKD	R. Cultura, Ven.
5052	59.38	50		Ulan Bator, Mongolia
	59.38	10		R. Singapore, Singapore
5055	59.35	50		Chita, USSR
	59.35	0.1		Kendari, Indonesia
	59.35	5	CP87	R. San Rafael, Bolivia
	59.35	2	ZYX24	R. Cult. Guiabá, Brazil
	59.35	1	ZYO23	R. Vitória, Brazil
	59.35	0.5	HCRP1	R. Católica, Ecuador
	59.35	1	OBX7O	R. Onda Imperial, Peru
5058	59.31			R. Tirana, Albania
	59.31	1	OAZ4A	R. Tarma, Peru
			5060-5960kHz	
5060	59.29	1	CR6RD	R. Cl. do Huambo, An.
	59.29	7.5		Aden, So. Yemen
	59.29	0.25	HCCP7	Voz del Cenapa, Ec.
5065	59.23	10		Petrozavodsk, USSR
5070	59.17	0.3	TGMS	R.Nac.Mazatenango.Guat.
5075	59.12	120/240		R. Peking, China
	59.12	25	HJGC	Acción Cult. Popular, Col.
5076	59.10	10		Colombo, Ceylon
5085	r59.04			Nusantara, Indonesia
5090	58.94	0.25	4VAE	La Voix Grand Anse, Haiti
5095	58.88	50	HJGG	Acción Cult. Popular, Col.
5118	r58.61	0.75	HCVC3	R. Centelina del Sur, Ec.
5125	58.54	120/240		R. Peking, China
5145	58.32	20/240		R. Peking, China
5155	58.20	0.15	4VEW	R. St. 4VEL, Haiti
5160	58.14	20/240		R. Peking, China
5170	58.03			Fukien, China
5182	r57.90	1	OAX8F	R. Atlántida, Peru
5192	r57.58	1	CR6RV	R.Cl.do Moxico,Angola
5220	57.47	20/240		R. Peking, China
5240	57.25			Fukien, China
5250	57.14	2	HCRO5	Ondas Canarias, Ec.
5260	57.05	50		Alma Ata, USSR
5295	56.66	20/240		R. Peking, China
5320	56.39	20/240		R. Peking, China
5440	55.15			Urumchi, China
†5448	55.05		NBA	Canal Zone, Panama
5455	55.00	50		Moscow, USSR
5525	54.32	20/240		R. Peking, China
5535	54.20	20/240		R. Peking, China
5545	54.10	20/240		R. Peking, China
5800	51.72			Urumchi, China
5850	51.28	20/240		R. Peking, China
5860	51.19	20/240		R. Peking, China
†5870	51.11		NSS	Annapolis, USA
5875	51.06	1	HRN	La Voz de Honduras, Hon.
5900	50.84	50		Moscow, USSR
	50.84			Fukien, China
	50.84	0.6	HCDF1	La Voz del Norte, Ec.
5908	50.78	7.5	4VB	Voix de la Rev. Duv, Haiti
5910	50.76	50		Moscow, USSR
5915	50.72	100		Sverdlovsk, USSR
	50.72	50		Erevan, USSR
5920	50.68	50		Moscow, USSR
5925	50.63	50		Tashkent, USSR
5927	r50.61		OCX7D	R. Puno, Peru

kHz	m	kW	Call	Stations & Countries
5930	50.59	100		Praha, Czechoslovakia
	50.59	15		Arkhangelsk, USSR
5933	50.57			Chengtu, China
5935	50.55			Llasa, Tibet
	50.55	100	YNN	R. Dif. Nacional, Nicar.
5940	50.51	50		Magadan, USSR
5945	r50.46	10	HJVN	R. Horizonte, Colombia
			5950-6200kHz (49 metre band)	
5950	50.42	120		R Tirana, Albania
	50.42	20/240		R Peking, China
	50.42	7.5	4VB	Voix de la Rev. Duv, Haiti
	50.42	0.25	OAX6A	R Arequipa, Peru
5954	50.39	1	TIQ	R. Casino, Costa Rica
5955	50.39	100		Allouis, France
	50.39	100		Munich (VOA), Germany
	50.39	20		R. Liberty, Germany
	50.39	100		R. Berlin Int, Germany
	50.39	100		Sverdlovsk, USSR
	50.39	10		Lubumbashi, Congo
	50.39	10	8FK24	Pakanbaru, Indonesia
	50.39	10	VRH6	Suva, Fiji Islands
	50.39	50		R. Canada, Canada
	50.39	250		Dixon (VOA/UN), USA
	50.39	10	TGNA	R. Cultural, Guatemala
	50.39	1	HRVF	R. Exitos, Son. Rep.
	50.39	0.5	YNRC	R. Zelaya, Nicaragua
	50.39	1	CP60	R. Pio XII, Bolivia
	50.39	7.5	ZYR226	R. Gazeta, Brazil
	50.39	1	CE595	R. Nuevo Mundo, Chile
	50.39	0.5	OAX4P	R. Huancayo, Peru
5960	50.34	50/500		R. Tirana, Albania
	50.34	100		Trans World Radio,Mon.
	50.34	50		Kaunas, USSR
	50.34	100	CR6AZ	Voz de Angola, Angola
	50.34	1		R. Kashmir, India
	50.34	50		Ulan Bator, Mongolia
	50.34	50		Damascus, Syria
	50.34	1	BEP23	Taipei, Taiwan
	50.34	10		Godthåb, Greenland
	50.34	1	HRHR	La Voz de Occidente,Hon.
	50.34	0.3	XEUMT	Univ. Iboamericana, Mex.
	50.34	100	HCJB	Voz de los Andes, Ec.
	50.34	5	HCRS6	R. Surcos, Ecuador
	50.34	1	HJCF	La Voz de Bogotá, Col.
	50.34	1	OAX7L	La Voz del Altiplano, Pe.
5965	50.29	100		Munich (VOA), Germany
	50.29	250		Woofferton (VOA), G.B.
	50.29	10		Gaberones, Botswana
	50.29	35/100		Tanger (VOA), Morocco
	50.29	100		Kuala Lumpur, Malaysia
	50.29	10		Quetta, Pakistan
	50.29	100		Delano (VOA), USA
	50.29	1	HRWW	La Voz de Centroamérica,
	50.29	0.5	YNWA	R. Mundial, Nicaragua
	50.29	7.5	ZYU60	R. Guiaba, Brazil
	50.29	1	HCGE5	R. Mundial, Ecuador
5970	50.25	10/50		R. Free Europe, Germany
	50.25	250		R. Free Europe, Portugal
	50.25	50		Alma Ata, USSR
	50.25	100		Tashkent, USSR
	50.25	50		Nikolaevsk, USSR
	50.25	4		R. Brazzaville, Congo
	50.25	10		AIR Gauhati, India
	50.25	10	YDO2	Bandjarmasin, Indonesia
	50.25	1	DZCA	NCDA, Philippines
	50.25	50		R. Canada, Canada
	50.25	10	HJVN	R. Horizonte, Col.
	50.25	1	HCCM1	R. Colon, Ecuador
	50.25	10	OBX4Q	R. El Sol, Peru
5975	50.21	75/100		BBC London, Gt. Britain
	50.21	20/240		R. Peking, China
	50.21	10	HLK52	Seoul, Korea
	50.21	1	CP44	R. Nacional, Bolivia
	50.21	10	ZYT44	R. Guarajá, Brazil
	50.21	10	CE597	Em. Pres. Balmaceda, Ch.
	50.21	3	ZPA6	R. Guarani, Paraguay
5980	50.17	120		Buchuresti, Rumania
	50.17	100		Tbilisi, USSR
	50.17	50		Krasnoyarsk, USSR
	50.17	0.5		Freetown, Sierra Leone
	50.17	100		Beyrouth, Lebanon
	50.17	3.5	BED30	Taipei (BCC), Taiwan
	50.17	10		Godthåb, Greenland
	50.17	2	ZFY	R. Demerara, Guiana
	50.17	7.5	4VB	Voix de la Rev. Duv, Haiti
	50.17	10	HJLY	La Voz del Rio Grande,
	50.17	5	OBX4M	R. Panaméricana, Peru
5981	r50.16	5	YSS	R. Nacional, El Salvador
5985	50.13	20		R. Free Europe, Germany
	50.13	250		R. Free Europe, Portugal
	50.13	50/100		R. Nacional, Portugal

kHz	m	kW	Call	Stations & Countries
5985	50.13	100		Dar es Salaam, Tanzania
	50.13	7.5		Dacca, Pakistan
	50.13	1	BEC37	Taipei, Taiwan
	50.13			Hanoi, Viet. (Dem. Rep.)
	50.13	1	LRS2	R. Splendid, Argentina
	50.13	10	HJHA	Trans. Independencia, Col.
5990	50.08	50		R. Sofia, Bulgaria
	50.08	100		BBC Limassol, Cyprus
	50.08	100		Hörby, Sweden
	50.08	50/60/100		R. Rome, Italy
	50.08	100		Serpukhov, USSR
	50.08			Huhehot, Inner Mongolia
	50.08	10		AIR Bhopal, India
	50.08	10	YDS2	Menado, Indonesia
	50.08	0.5		Pakanbaru, Indonesia
	50.08	50		R. Canada, Canada
	50.08	10	PRL5	R. Minist. Educação, Br.
	50.08	0.5	HCFA4	La Voz de Manabi, Ec.
	50.08	1	OAX1W	R. Nacional Tumbes, Peru
5993	50.05	10		R. Mbandaka, Congo
5995	50.04	35		Thessaloniki (VOA), Gre.
	50.04	10		Warsaw, Poland
	50.04	10		Blantyre, Malawi
	50.04	3	BEC77	Taipei, Taiwan
	50.04	250		Greenville (VOA), USA
	50.04	1	HRP1	Ecos de Honduras, Hon.
	50.04	4		R. Martinique, Martinique
	50.04	1	HOM50	Circuito RPC, Panama
	50.04	1	CP51	R. Loyola, Bolivia
	50.04	1	HJFL	La Voz del Pueblo, Col.
	50.04	1	HCWN1	La Voz del Triunfo, Ec.
6000	50.00	1	OEI20	Aldrans, Austria
	50.00	50/250		Moscow, USSR
	50.00	50		R. Afghanistan, Afghan.
	50.00	50		Jeddah, Saudi Arabia
	50.00	7.5		R. Singapore, Singapore
	50.00	25	PRK5	R. Inconfidencia, Br.
	50.00	0.25	HCFZ1	R. Voz y Vision, Ec.
	50.00	1	CXA2	R. Sur, Uruguay
	50.00	1	YVNL	R. Miranda, Ven.
6005	49.96	20/100		Berlin (RIAS), Germany
	49.96	4		R. Buea, Cameroon
	49.96	100		SABC, South Africa
	49.96	10		Zanzibar, Tanzania
	49.96	10		Colombo, Ceylon
	49.96	10	VRH7	Suva, Fiji Islands
	49.96	0.5	CFCX	Montreal, Canada
	49.96	10	CP58	R. Progreso, Bolivia
6010	49.92	20/100	ORU	Wavre, Belgium
	49.92	100		BBC Limassol, Cyprus
	49.92	100		BBC London, Gt. Britain
	49.92	100		R. Moscow, USSR
	49.92	250		BBC Ascension Isl.
	49.92	7.5		BBC Tebrau, Malaysia
	49.92	35/100		Okinawa (VOA), Ryukyu
	49.92	10		Thai TV Co., Thailand
	49.92	1	CJCX	Sydney, Canada
	49.92	0.25	XEOI	R. Mil, Mexico
	49.92	5	YSS	R. Nacional, El Salvador
	49.92	0.25	CE601	R. Norte, Chile
	49.92	10	HJFK	La Voz Amiga, Col.
	49.92	10	OAX4V	R. América, Peru
	49.92	10		R. Sarandi, Uruguay
6015	49.88	50		Rhodes (VOA), Greece
	49.88	50		Krasnoyarsk, USSR
	49.88	100		R. Abidjan, Ivory Coast
	49.88	35/100		Tanger (VOA), Morocco
	49.88	10/100	VUD	AIR Delhi, India
	49.88	5	PRA8	R. Cl. de Pernambuco, Br.
	49.88	1	ZPA10	R. Paraguay, Paraguay
6020	49.83	10/100		R. Nederland, Holland
	49.83	50		Moscow, USSR
	49.83	50		Khabarovsk, USSR
	49.83	50		Kiev, USSR
	49.83	35/100		Tanger (VOA), Morocco
	49.83	2.5		AIR Simla, India
	49.83	250		Greenville (VOA), USA
	49.83	0.25	4VEB	R. Caraibes, Haiti
	49.83	1	HRSP	R. Moderna, Hon. Rep.
	49.83	5	XEUW	El Eco de Sotavento, Mex.
	49.83	300		R. Nederland, Bonaire
	49.83		HJCZ	Voz de Colombia, Col.
	49.83	1	OAX4Q	R. Victoria, Peru
6025	49.79	100		Deutsche Welle, Germany
	49.79	10/50/100	CSA52	R. Nacional, Portugal
	49.79			Benghazi, Libya
	49.79	20/240		R. Peking, China
	49.79	50		Kuala Lumpur, Malaysia
	49.79	7.5	ZYR63	R. Em. de Piratininga, Br.
	49.79	3	ZPA1	R. Nacional, Paraguay

kHz	m	kW	Call	Stations & Countries
6030	49.75	20		Mühlacker (SDR), Ger.
	49.75	100		Simferopol, USSR
	49.75	4		Franceville, Gabon
	49.75	100		Baghdad, Iraq
	49.75	2	DZH6	Call of the Orient, Phil.
	49.75	0.1	CFVP	Calgary, Canada
	49.75	50		Greenville (AFRTS), USA
	49.75		HP5C	R. Miramar, Panama
	49.75	1	CE603	R. Mineria, Chile
	49.75	50	HJCT	R. Nacional, Colombia
6035	49.71	30		R. Monte Carlo, Monaco
	49.71	6		Warsaw, Poland
	49.71	50		Vladivostok, USSR
	49.71	50		Monrovia (VOA), Liberia
	49.71	10		Enugu (NBC), Nigeria
	49.71	50	XZK3	Rangoon, Burma
	49.71	10/100	VUD	AIR Delhi, India
	49.71	1	HRTL	R. Tic Tac, Hon. Rep.
	49.71		CP92	R. Panamericana, Bolivia
	49.71	10	ZYZ26	R. Globo, Brazil
	49.71	0.5	HCNK3	R. Cariamanca, Ecuador
	49.71	1	OAX6B	R. Landa, Peru
6037	49.69	2	TIFC	Faro del Caribe, Costa Rica
6040	49.67	100		Deutsche Welle, Germany
	49.67	100		Munich (VOA), Germany
	49.67	250		Woofferton (VOA), G.B.
	49.67	4		R. Yaounde, Cameroon
	49.67	35/100		Tanger (VOA), Morocco
	49.67	10/100	VUD	AIR Delhi, India
	49.67	7.5	BED9	Tamsui (BCC), Taiwan
	49.67	10		BFBS, Singapore
	49.67	1		R. Sharjah, Trucial Oman
	49.67	0.5	HRDH	R. Caribe, Hon. Rep.
	49.67	10	HJLB	La Voz del Tolima, Col.
6042	49.65	0.25	OAX6A	R. Arequipa, Peru
6045	49.63	5		Athens (FBS), Greece
	49.63	100		Moscow, USSR
	49.63	20/250		Monrovia (VOA), Liberia
	49.63	35		Tanger (VOA), Morocco
	49.63	120	YDF	Djakarta, Indonesia
	49.63	0.25	XEXQ	R. Universidad, Mexico
	49.63	1	HOU31	La Voz del Baru, Panama
	49.63	7.5	ZYZ33	R. Clube Paranaense, Br.
	49.63	10	OCY4H	R. Santa Rosa, Peru
	49.63	2.5	CXA61	R. Sport, Uruguay
6050	49.59	100		BBC Limassol, Cyprus
	49.59	100		Munich (VOA), Germany
	49.59	100		R. Berlin Int, Germany
	49.59	75		BBC London, Gt. Britain
	49.59	20		Irkutsk, USSR
	49.59	25		R. Clube de Moçambique
	49.59	10		Ibadan (WNRS), Nigeria
	49.59	10/100	VUD	AIR Delhi, India
	49.59	0.05	4VG	R. Union, Haiti
	49.59	0.5	HRLP	R. América, Hon. Rep.
	49.59	0.5	CE605	R. Libertad, Chile
	49.59			R. Tucapel, Chile
	49.59	30	HCJB	La Voz de los Andes, Ec.
6055	49.55	100/200		Praha, Czechoslovakia
	49.55	250		Schwarzenburg, Switz.
	49.55	50		Tallinn, USSR
	49.55	50		Kigali, Rwanda
	49.55	10/50	JOZ2	Tokyo (NSB), Japan
	49.55	0.25	DYH4	Dumaguete City, Phil.
	49.55	250		Darwin, Australia
	49.55	50		Greenville (UN), USA
	49.55	7.5	PRB21	R. Panamericana, Brazil
	49.55	5	HJEX	R. Pacifico, Col.
	49.55	1	OAX6E	R. Continental, Peru
	49.55	5	CXA53	La Voz de Melo, Uruguay
6060	49.50	100		Munich (VOA), Germany
	49.50	5/25		Caltanisetta, Italy
	49.50	50		Chita, USSR
	49.50	20		Luzaka, Zambia
	49.50	10/50		R. Habana, Cuba
	49.50	1	HRU	R. Castro, Hon. Rep.
	49.50	50	LRA31	Buenos Aires, Argentina
	49.50	0.25	HCAC1	La Voz Democracia, Ec.
6062	49.48	2		Bangkok, Thailand
	49.48	0.25	OAX8L	R. Telesar, Peru
6065	49.46	100		BBC Limassol, Cyprus
	49.46	100		Hörby, Sweden
	49.46	240		Minsk, USSR
	49.46	100	ETLF	Addis Ababa, Ethiopia
	49.46	2		AIR Kohima, India
	49.46	10	HLK53	Suwon, Korea
	49.46	500		Greenville (VOA), USA
	49.46	50		Greenville (UN), USA
	49.46	10	XEXG	R. Dif. México, Mexico
	49.46	7.5	PRL8	R. Nac. Brasilia, Brazil
	49.46	7.5	ZYZ31	R. Rural Brasileira, Br.

kHz	m	kW	Call	Stations & Countries
6070	49.42	100		R. Sofia, Bulgaria
	49.42	100		Tema, Ghana
	49.42	4		R. Université, Mal. Rep.
	49.42	0.5	8FW3	Djajapura, Indonesia
	49.42	10		Karachi, Pakistan
	49.42	1	HSK5	R. Thailand, Thailand
	49.42	1	CFRX	Toronto, Canada
	49.42	1	CP18	R. El. Condor, Bolivia
	49.42	0.5	HCIW5	R. El Mercurio, Ec.
	49.42	0.3	OAX4S	R. Onda Popular, Peru
	49.42	5	YVSR	R. San Sebastian, Ven.
6075	49.38	100		Deutsche Welle, Germany
	49.38	75/100		BBC London, Gt. Britain
	49.38	250		Woofferton (VOA), G.B.
	49.38	50		Rhodes (VOA), Greece
	49.38	50/60/100		R. Roma, Italy
	49.38	50		Volgograd, USSR
	49.38	20		SABC, South Africa
	49.38	10		Colombo, Ceylon
	49.38	35/100		Okinawa (VOA),Ryuk.Isl.
	49.38	100	WNYW	R. New York, USA
	r49.38	1	TISRHE	R. Popular, Costa Rica
	49.38	0.15	4VEA	La Voix du Nord, Haiti
	49.38	5	HRMH	La Voz del Junco, Hon.
	49.38	5	CE607	R. Nac. de Mineria, Chile
	49.38	10	HJCT	Acción Cult. Popular, Col.
	49.38	2.5	CXA3	R. Ariel, Uruguay
6078	49.36	0.2	4VSC	La Voz de St. Marc, Haiti
6080	49.34	50/100		R. Berlin Int, Germany
	49.34	250		Woofferton (VOA), G.B.
	49.34	10	CSB51	R. Cl. Portuguese, Port.
	49.34	50		Alger, Algeria
	49.34			Hailar, Inner Mongolia
	49.34	100		R. Japan, Japan
	49.34	7.5		BBC Tebrau, Malaysia
	49.34	7.5	ZL7	Wellington, New Zealand
	49.34	0.01	CFKX	Vancouver, Canada
	49.34	0.5	TGSMA	St. Marcos, Guatemala
	49.34	1	4VHW	R. Haiti, Haiti
	49.34	10	HCDG2	R. Bolivar, Ecuador
6082	49.32	15	OAX4Z	R. Nacional, Lima, Peru
6085	49.30	10	DMR24	Munich (BR), Germany
	49.30	100		R. Nederland, Holland
	49.30	50		Tallinn, USSR
	49.30	10		R. Kisangani, Congo (DR)
	49.30	100	VUM	AIR Madras, India
	49.30	10	ZYK2	R. Jornal do Comercio,Br.
	49.30	1	HJDX	Ecos de Pasto, Col.
	49.30	1	HCEG1	R. Exitos, Ecuador
6090	49.26	250		BBC London, Gt. Britain
	49.26	50		R. Luxembourg, Lux.
	49.26	50		Irkutsk, USSR
	49.26	50		Simferopol, USSR
	49.26	10	ELBC	Liberia Bc. Corp, Liberia
	49.26	10		R. TV Kaduna, Nigeria
	49.26	50		R. Cambodia, Cambodia
	49.26	3	BEC26	Taipei, Taiwan
	r49.26	10		Thai TV Co, Thailand
	49.26	2	VLI6	Sydney, Australia
	49.26	20	H1SD	R. TV Dominicana, Dom.
	49.26	1	HRNQ	R. Morazán, Hon. Rep.
	49.26	1	XECMT	R. Mante, Mexico
	49.26	40	LRY1	R. Belgrano, Argentina
	49.26	0.5	HCUM6	R. Once de Noviembre, Ec.
6095	49.22	250		Woofferton (VOA), G.B.
	49.22	15/120		Buchuresti, Roumania
	49.22	50		Mogadiscio, Somali Rep.
	49.22	100		SABC, South Africa
	49.22	100		Baghdad, Iraq
	49.22	25	ZYB7	R. Dif. de São Paulo, Br.
	49.22	1	HJIW	Voz del Centro, Col.
	49.22	10	OAX4H	R. Oficial del Congreso, Pe.
6097	49.20	50/500		Tirana, Albania
6100	49.18	100		Deutsche Welle, Germany
	49.18	100		R. Berlin Int, Germany
	49.18	100		R. Belgrade, Yugoslavia
	49.18	50		Vladivostok, USSR
	49.18	100		Kuala Lumpur, Malaysia
	49.18	0.25	4VO	R. Lumière, Haiti
	49.18			Voix de l'Ave Maria, Haiti
	49.18	0.4	YNHC	R. Hernández, Nicaragua
	49.18	1	CE610	R. Calama, Chile
	49.18	1	HCSP4	La Voz del Volante, Ec.
6105	49.14	10/50		R. Free Europe, Germany
	49.14	50		R. Free Europe, Portugal
	49.14	100		Dushanbé, USSR
	49.14	100		Djakarta, Indonesia
	49.14	5		Ulan Bator, Mongolia
	49.14	7.5	BEC61	Air Force St, Taiwan
	49.14	1	XEQM	Mérida, Mexico
	49.14	5	ZYN6	Ceará R. Clube, Brazil

kHz	m	kW	Call	Stations & Countries
6105	49.14	1	HJDV	R. Visión, Colombia
	49.14	1	OAX6F	R. Nacional Tacna, Peru
6107	49.12	20/240		R. Peking, China
6110	49.10	100		BBC Limassol, Cyprus
	49.10	100/250		BBC London, Gt. Britain
	49.10	50		Baku, USSR
	49.10	0.5	TGQA	Quezaltenango, Guat.
	49.10	0.5	HRXW	R. Comayagüela, Honduras
	49.10	50		TWR Bonaire, Neth. Ant.
	49.10	50	HCJB	Voz de los Andes, Ec.
	49.10	1	ZPA11	R. Charitas, Paraguay
	49.10	1	YVNK	R. Cabimas, Ven.
6115	49.06	5		Deutschlandsender, Ger.
	49.06	50		R. Free Europe, Germany
	49.06	50		Khabarovsk, USSR
	49.06	50		R. TV Congolaise, Congo
	49.06	10		R. Clube de Moçambique
	49.06	1	XEUDS	R. Univ. de Sonora, Mex.
	49.06	100	ZYC7	R. Tamoio, Brazil
	49.06	5	ZYN6	Ceará R. Clube, Br.
	49.06	5	CE611	Soc. Nac. de Agric, Chile
	r49.06		HJIG	Ondas del Meta, Col.
	49.06	1	HJ1Q	La Voz del Llano, Col.
	49.06	10	OBZ4O	R. Unión, Peru
6120	49.02	100		BBC Limassol, Cyprus
	49.02	15	OIX7	Pori, Finland
	49.02	100		Deutsche Welle, Germany
	49.02	250		Schwarzenburg, Switz.
	49.02	100		Armavir, USSR
	49.02	20/240		R. Peking, China
	49.02	10		AIR Hyderabad, India
	49.02	50	DZF4	Call of the Orient, Phil.
	49.02	2	4VE	R. St. 4VEH, Haiti
	49.02	0.5	XETS	R. XETS, Mexico
	49.02	1	YNCA	R. Atlantico, Nicaragua
	49.02	10	LRX1	R. El Mundo, Argentina
6123	49.01	1	OCX4A	R. La Cronica, Peru
6125	48.98	100	ORU	Wavre, Belgium
	48.98	250		Woofferton (VOA), G.B.
	48.98	75/100		BBC London, Gt. Britain
	48.98	50		R. Tashkent, USSR
	48.98	10		Kasai, Congo (D.R.)
	48.98	35/100		Tanger (VOA), Morocco
	48.98	250		Greenville (VOA/UN), USA
	48.98	50/250		Delano (VOA), USA
	48.98	1	HRQ	La Voz de Suyapa, Hon.
	48.98	1	CP15	R. El. Cóndor, Bolivia
	48.98	10	PRG9	R. Nac. de São Paulo, Br.
	48.98	1	HJKE	R. Continental, Col.
	48.98	10	CXA4	S.O.D.R.E., Uruguay
6128	48.96	0.1	OAX7A	R. Cuzco, Peru
6129	48.95	1	YVTD	R. Valles de Tuy, Ven.
6130	r48.94	120		R. Tirana, Albania
	48.94	100		Deutsche Welle, Germany
	48.94	100		R. Nacional, Spain
	48.94	50		Moscow, USSR
	48.94	50		Vladivostok, USSR
	48.94	100		Tema, Ghana
	48.94	10		Colombo, Ceylon
	48.94	25		Vientiane, Laos
	48.94	10/250		R. Kuwait, Kuwait
	48.94	0.5	CHNX	Halifax, Canada
	48.94	50	HCJB	La Voz de los Andes, Ec.
6135	48.90	50/240		R. Tirana, Albania
	48.90	10		R. Free Europe, Germany
	48.90	100		Warsaw, Poland
	48.90	50		R. Free Europe, Portugal
	48.90	50		Alma Ata, USSR
	48.90	1	YDY	Samarinda, Indonesia
	48.90	4		Papéete, Tahiti
	48.90	0.5	HRME	R. El Patio, Hon. Rep.
	48.90	1	CP30	R. Sta. Cruz, Bolivia
	48.90	10	PRC21	R. TV Gáucha, Brazil
	48.90	10	CE613	Concepción, Chile
	48.90	0.5	OCX4M	R. Pasco, Peru
6140	48.86	100		Praha, Czechoslovakia
	48.86	100		R. Nederland, Holland
	48.86	100		R. Nacional, Spain
	48.86	50		Voronej, USSR
	46.86	10		Bujumbura, Burundi
	48.86	100		R. Japan, Japan
	48.86	10	VLW6	Perth, Australia
	48.86	0.3	XERUU	R. Univ. de Chih, Mexico
	48.86	0.5	CP81	R. Luis de Puentes, Bol.
	48.86	1	HJNE	R. El Sol, Colombia
	48.86	5	HCDE4	R. Visión, Ecuador
	48.86	0.2	OAX9B	R. Amazonas, Peru
	48.86	0.2	OAX1A	R. Délcar, Peru
6145	48.82	100		Allouis, France
	48.82	100	DMQ6	Deutsche Welle, Germany
	48.82	50		Omsk, USSR

kHz	m	kW	Call	Stations & Countries
6145	48.82	100		Moscow, USSR
	48.82	10		R. Biafra, Biafra
	48.82	10/100	VUD	AIR Delhi, India
	48.82	250		Delano (VOA), USA
	48.82	0.5	HRXE	R. Mil Treinta, Hon.
	48.82	50	PRL9	R. Nacional Rio, Brazil
	48.82	1	HJEQ	La Voz del Cauca, Col.
	48.82	0.5	OAZ4E	R. Mineria, Peru
6150	48.78	100		Munich (VOA), Germany
	48.78	100/250		BBC London, Gt. Britain
	48.78	120		Bucharesti, Roumania
	48.78	100		R. Belgrade, Yugoslavia
	48.78	1	CR6RF	R. Clube de Benguela, An.
	48.78	20		SABC, South Africa
	48.78	2.7		R. Maldives, Maldive Rep.
	48.78	10	VLR6	Melbourne, Australia
	48.78	1	TIJCV	R. Guapiles, Costa Rica
	48.78			R. Atenea, Costa Rica
	48.78	5	CE615	La Voz de Chile, Chile
	48.78	0.6	HCLV1	R. El Sol, Ecuador
	48.78	1	HCAF1	R. Metropolitana, Ec.
	48.78	2	OBX4G	R. Exelcior, Peru
6155	48.74	100	OEI21	Vienna, Austria
	48.74	3	CSB52	R. Renascença, Portugal
	48.74	50		Lvov, USSR
	48.74	50		Krasnoyarsk, USSR
	48.74	4		Lome, Togo
	48.74	20/240		R. Peking, China
	48.74			Lanchow, China
	48.74	7.5		R. Tabriz, Iran
	48.74	50		Baghdad, Iraq
	48.74	10		Tokyo (FEN), Japan
	48.74	50		R. Singapore, Singapore
	48.74	0.25	4VWB	R. Citadelle, Haiti
	48.74	1	CP12	R. Fides, Bolivia
	48.74	0.3	HCBS4	R. Tropical, Ecuador
	48.74	1	OAX8Q	R. Pucallpa, Peru
	48.74	1	CXA13	R. Carve, Uruguay
6157	48.72	50/100		Tirana, Albania
6160	48.70	100		Munich (VOA), Germany
	48.70	250		Woofferton (VOA), G.B.
	48.70	50		Sebaa-Aioun, Morocco
	48.70	1	HSK4	R. Thailand, Thailand
	48.70	0.5	CKZU	Vancouver, Canada
	48.70	0.3	CKZN	St. John's, Canada
	48.70	10	HJKJ	Emis. Nueva Granada, Col.
	48.70	1	OCX4G	R. Mundo, Peru
6165	48.66	250		Schwarzenburg, Switz.
	48.66	100		Kiev, USSR
	48.66	100		Vladivostok, USSR
	48.66	20		Lusaka, Zambia
	48.66	20/200		Saigon, Vietnam
	48.66	1	HRTV	R. Televisión, Hon. Rep.
	48.66	10	XEWW	Voz América Latina, Mex.
	48.66	7.5	ZYR58	R. Dif. São Paulo, Br.
	48.66	0.5	HCJJ2	R. Punto Verde, Ecuador
	48.66	0.4	OAX2A	R. Trujillo, Peru
6170	48.62	10		R. Free Europe, Germany
	48.62	50		R. Liberty, Germany
	48.62	100	ETLF	Addis Ababa, Ethiopia
	r48.62	50		Sebaa-Aioun, Morocco
	48.62	35/100		Tanger (VOA), Morocco
	48.62	5		Ulan Bator, Mongolia
	48.62	10		AIR Lucknow, India
	48.62	10	8FK35	Padang, Indonesia
	48.62	0.5		Seoul (Army), Korea Rep.
	48.62	10		Karachi, Pakistan
	48.62	7.5/50		Malolos (VOA), Phil.
	48.62	50	DUH2	Philipp.Bc.Sce, Phil.
	48.62	4		Cayenne, French Guiana
	48.62	1	HJDD	R. Valledupár, Colombia
	48.62	0.25	HCPJ2	R. Fluminense, Ecuador
	48.62	0.35	OBX4B	R. Corporación, Peru
	48.62	1	CXA21	R. Fenix, Uruguay
	48.62	10	YVKG	R. Nacional, Ven.
6175	48.58	100		Allouis, France
	48.58	120		Kazan, USSR
	48.58	50	CR6RZ	R. Angola, Angola
	48.58	20		Kaduna (NBC), Nigeria
	48.58	100		Kuala Lumpur, Malaysia
	48.58	0.5	4VPJ	R. Dif. Capoise, Haiti
	48.58	10	ZYV74	R. Guarani, Brazil
	48.58	0.3	OAX7C	R. Tahuantisuyo, Peru
6176	48.56			Sian, China
6180	48.54	75		BBC London, Gt. Britain
	48.54	50		Tashkent, USSR
	48.54	50		Alma Ata, USSR
	48.54	50		Monrovia (VOA), Liberia
	48.54	7.5		R. Clube de Moçambique
	48.54	4		Ziguinchor, Senegal
	48.54	10	TGWB	La Voz de Guatemala
6180	48.54	10	LRA34	R. Nac. Mendoza, Argen.
	48.54	1	CE617	R. Universidad, Chile
	48.54	1	HCMC7	La Voz de los Aucas, Ec.
	48.54	0.5	OBX4P	R. Miraflores, Peru
6183	48.52	50	HJWT	R. Nacional, Colombia
6185r	48.50	120		R. Tirana, Albania
	48.50	100		Praha, Czechoslovakia
	48.50	100		Deutsche Welle, Germany
	48.50	100	CSA29	R. Nacional, Portugal
	48.50	50		Riazan, USSR
	48.50	100		Addis Ababa, Ethiopia
	48.50	10		Colombo, Ceylon
	48.50	35		Poro (VOA), Philippines
	r48.50	1		R. Sharjah, Trucial Oman
	48.50	200		Delano (VOA), USA
	48.50	0.5	HRMT	R. Molina, Rojo, Hon.
	48.50	1	XEICM	La Voz del Maestro, Mex.
	48.50	1	CP9	R. Amauta, Bolivia
	48.50	10	ZYR77	R. Bandeirantes, Brazil
6190	48.47	10	DRM23	R. Bremen, Germany
	48.47	15/120		Buchuresti, Roumania
	48.47	15		Petropavlovsk, USSR
	48.47	50		Omsk, USSR
	48.47	80/100		Vatican Radio
	48.47	10/100	VUD	AIR Delhi, India
	48.47	250		Greenville (VOA), USA
	48.47	200		Delano (VOA), USA
	48.47	1	TGFT	R. Nac. Tikal, Guatemala
	48.47	10	CE619	R. Corporacion, Chile
	48.47	0.4	OAX4G	R. Lima, Peru
6195	48.43	50/500		Tirana, Albania
	48.43	100		BBC London, Gt. Britain
	48.43	50		Baku, USSR
	48.43	1	HLK60	Christian Bc. Sce, Korea
	48.43	1	4VHW	R. Haiti, Haiti
	48.43	50		Trans World R, Bonaire
	48.43	5	CP71	R. Universo, Bolivia
	48.43	7.5	PRD21	Em. Continental, Brazil
	48.43	1	HJEZ	La Voz de Cali, Col.
	48.43	1.5	HCEH6	R. Cosmopolita, Ecuador
6198	48.40	0.3	OAX1B	R. Sudamericana, Peru
				6200-7100kHz
6200	48.39	50/100		R. Tirana, Albania
	48.39	1	YNJM	R. Norte, Nicaragua
6206	48.34	1	TIHGB	R. Reloj, Costa Rica
6210	48.31	120/240		R. Peking, China
	48.31			R. Nordsee International
6225	48.19	120/240		R. Peking, China
6230	48.15	50/100		Cairo, U.A.R.
6234	48.10	5/135		R. Budapest, Hungary
6235	48.10	10/50		Karachi, Pakistan
6245	48.04	120		R. Sofia, Bulgaria
6250	48.00	10		Sta. Isabel, Guinea
	48.00	120/240		Pyongyang, Korea
	r48.00	1	OAXTA	R. Cuzco, Peru
6255	47.96			Schulungssender, Austria
6260	47.92			Sining, China
6270	47.84	20/240		R. Peking, China
6280	47.77	100		R. Moscow, USSR
	47.77	1		Istanbul, Turkey
6290	47.69	120/240		R. Peking, China
	47.69	120/240		Pyongyang, Korea
6320	47.47	20/240		R. Peking, China
6325	47.43	20/240		R. Peking, China
6345	47.28	120/240		R. Peking, China
6383	47.00	50		Ulan Bator, Mongolia
6398	46.90			Fukien, China
6400	46.88	20/240		R. Peking, China
6410	46.81	20/240		R. Peking, China
†6428	46.67		NPG	San Francisco, USA
6470	46.37	20/240		R. Peking, China
†6475	46.33	5	DAM	Elmshorn, Germany
6480	46.30	120/240		Pyongyang, Korea
6500	46.15			Sining, China
6520	46.00	0.4		R. Gorgan, Iran
6540	45.87	120/240		Pyongyang, Korea
6550	45.80	20/240		R. Peking, China
6560	45.73	20/240		R. Peking, China
6590	45.52	20/240		R. Peking, China
6600	45.45	120/240		Pyongyang, Korea
6610	45.39	20/240		R. Peking, China
6620	45.32	20/240		R. Peking, China
6645	45.15	20/240		R. Peking, China
6660	45.04	0.2		R. Kukesi, Albania
6750	44.44			R. Peking, China
6790	44.18	20/240		R. Peking, China
6810	44.05	20/240		R. Peking, China
6818	44.01	0.4		R. Sanandaj, Iran
6825	43.96	20/240		R. Peking, China
6840	43.86	20/240		R. Peking, China
	43.86			Huhehot, Inner Mongolia

kHz	m	kW	Call	Stations & Countries
6850	43.80	0.35		Pathfinders St, Poland
6860	43.73	20/240		R. Peking, China
6890	43.54	20/240		R. Peking, China
6937	43.25			Kunming, China
6940	43.20	0.5		R. Rezaieh, Iran
6955	43.13	240		R. Peking, China
6975	43.01			Huhehot, Inner Mongolia
6995	42.99	120/240		R. Peking, China
7005	42.83	120/240		R. Peking, China
7010	42.80	20/240		R. Peking, China
7025	42.70	20/240		R. Peking, China
7035	42.64	120/240		R. Peking, China
7040	42.61	0.5	OE3XNB	Amateur Radio, Austria
7050	42.55	50/100		Cairo, Un. Arab Rep.
7055	42.52	20/240		R. Peking, China
7060r	42.49	120		R. Tirana, Albania
	42.49	20/240		R. Peking, China
7064	42.46	100		R. Iran, Iran
7065	42.46	50/240		R. Tirana, Albania
	42.46	20/240		R. Peking, China
	42.46	0.01	HL2AW	Taegu, Korea (Rep.)
7070	42.42	20/240		R. Peking, China
7075r	42.40	120		R. Tirana, Albania
	42.40	50/100		Cairo, Un. Arab Rep.
	42.40	20/240		R. Peking, China
7080	42.37	120/240		R. Peking, China
7086	42.34	50/500		R. Tirana, Albania
7090r	42.31	50/240		R. Tirana, Albania
7095	42.28	20/240		R. Peking, China
		7100-7300kHz (41 metre band)		
7100	42.25	5		R. Budapest, Hungary
	42.25	100		R. Moscow, USSR
	42.25	0.25	TAO6	Izmir, Turkey
7105	42.22	75/100		BBC London, Gt. Britain
	42.22	100		R. Nacional, Spain
	42.22	250		BBC, Ascension Island
	42.22	4		R. Brazzaville, Congo
	42.22	4		Tananarive, Malagasy Rep.
	42.22	10		Colombo (VOA), Ceylon
	42.22	10/100	VUD	AIR Delhi, India
	42.22	7.5	YDJ2	Jogjakarta, Indonesia
	42.22	5		R. Nepal, Nepal
	42.22	50		Damascus, Syria
	42.22	1		Thai TV Co, Thailand
7110	42.19	250		BBC London, Gt. Britain
	42.19	50		Rhodes (VOA), Greece
	42.19	15/120		Bucharesti, Roumania
	49.19	50		Omsk, USSR
	42.19	50		Tula, USSR
	42.19	3/8		Kampala, Uganda
	42.19	50		Kuala Lumpur, Malaysia
	r42.19	10		Rawalpindi, Pakistan
7115	42.16	10		R. Free Europe, Germany
	42.16	100		R. Free Europe, Portugal
	42.16	10		Kinshasa, Congo (D.R.)
	42.16	10		Sebaa-Aioun, Morocco
	42.16	2.5		Bangkok, Thailand
	42.16	5	VQO7	Solomon Islands
7120	42.13	50/240		Tirana (R. Peking relay)
	42.13	100		BBC Limassol, Cyprus
	42.13	75/250		BBC London, Gt. Britain
	42.13	50		Tula, USSR
	42.13	30		Fort Lamy, Chad
	42.13	10		R. Hargeisa, Somalia
	42.13	50	XZK4	Rangoon, Burma
	42.13	20/240		R. Peking, China
	42.13	10/100	VUD	AIR Delhi, India
	42.13	100	VUB	AIR Bombay, India
	42.13	10		Denpassar, Indonesia
	42.13	7.5/75		BBC Tebrau, Malaysia
	42.13	5		Ulan Bator, Mongolia
7125	42.11	100		Warsaw, Poland
	42.11	50		Conakry, Guinea
	42.11	5		Nairobi, Kenya
	42.11	10/100	VUD	AIR Delhi, India
	42.11	10/50		Karachi, Pakistan
7130	42.08	100		Deutsche Welle, Germany
	42.08	250		BBC London, Gt. Britain
	42.08	100		Erevan, USSR
	42.08	50		Krasnoyarsk, USSR
	42.08	0.25		Nampula, Moçambique
	42.08	20		SABC, South Africa
	42.08	50	BED7	Taipei (BCC), Taiwan
7135	42.05	30		R. Monte Carlo, Monaco
	42.05	50		Krasnoyarsk, USSR
	42.05	100		Nairobi, Kenya
	42.05	250		Monrovia (VOA), Liberia
	42.05	10		Karachi, Pakistan
	42.05	50/250		Tinang (VOA), Phil.
7140	42.02	100		BBC Limassol, Cyprus
	42.02	100		BBC London, Gt. Britain

kHz	m	kW	Call	Stations & Countries
7140	42.02	240		Riga, USSR
	42.02	0.5	CR6RA	R. Clube de Angola, An.
	42.02	10		AIR Hyderabad, India
	42.02	10	YDR2	Ambon, Indonesia
	42.02	100		R. Japan, Japan
7143	42.01	1.6	TAO5	Istanbul, Turkey
7145	41.99	10		R. Free Europe, Germany
	41.99	15/40		Warsaw, Poland
	41.99	25		R. Free Europe, Portugal
	41.99	100		Novosibirsk, USSR
	41.99	100		Tula, USSR
	41.99	0.25		Quelimane, Moçambique
	41.99	10/20		R. Malaysia, Sarawak
7150	41.96	100		Deutsche Welle, Germany
	41.96	100		BBC London, Gt. Britain
	41.96	240		Lvov, USSR
	41.96	100		Serpukhov, USSR
	41.96	0.25		Porto Amélia, Moçambique
	41.96	20		SABC, South Africa
	41.96	20/240		R. Peking, China
	41.96	3	BED35	Minhsiung, Taiwan
	41.96	10		AIR Gauhati, India
7155	41.92	100		Allouis, France
	41.92	250		R. Liberty, Spain
	41.92	100		Vatican Radio
	41.92	4		Tananarive, Mal. Rep.
	41.92	4		R. Niger, Niger
	41.92	20/240		R. Peking, China
	41.92	100		Amman, Jordan
7160	41.90	100		Allouis, France
	41.90	100		Lvov, USSR
	41.90	1	CR6RD	R. Cl. do Huambo, An.
	41.90	20		SABC, South Africa
	41.90	10/100	VUD	AIR Delhi, India
	41.90	2		R. Kashmir, India
	41.90	1	DUH9	R. University, Phil.
	41.90	35/100		Okinawa(VOA),Ryuk.Isl.
	41.90	10/20		R. Malaysia, Sarawak
	41.90	250		Darwin (ABC), Australia
7165	41.87	10		R. Free Europe, Germany
	41.87	250		R. Free Europe, Portugal
	41.87	100		El Beida, Libya
	41.87	100		SABC, South Africa
	41.87	20		Dar es Salaam, Tanzania
	41.87			Foochow, China
	41.87	10/100	VUD	AIR Delhi, India
	41.87	0.5		Sorong, Indonesia
	41.87	100		R. Nepal, Nepal
	41.87	35		Okinawa (VOA), Ryukyu
7170	41.84	250		Wofferton (VOA), G.B.
	41.84	50		Novosibirsk, USSR
	41.84	25		Dakar, Senegal
	41.84	2		AIR Kohima, India
	41.84	10		Peshawar Pakistan
	41.84	10		R. Singapore, Singapore
	41.84	20		R. Nouméa, New Caled.
7175	41.81	5		Caltanisetta, Italy
	41.81	120		Starobelsk, USSR
	41.81	25		R. TV Congolaise, Congo
	41.81	250		Monrovia (VOA), Liberia
	r41.81	100		Gwelo, Rhodesia
	41.81	50	YDB3	Djakarta, Indonesia
	41.81	10		Saigon, Vietnam
7180	41.78	50		R. Liberty, Germany
	41.78	10		Colombo, Ceylon
	41.78	10		AIR, Bhopal, India
	41.78	100		Baghdad, Iraq
	41.78	1	DZMT	Manila, Philippines
	41.78	0.5	BEG20	Taipei, Taiwan
	41.78	250		Darwin, Australia
7185	41.75	5		Deutschlandsender, Ger.
	41.75	75		BBC London, Gt. Britain
	41.75	50		Blagovechensk, USSR
	41.75	100		Tbilisi, USSR
	41.75	20		SABC, South Africa
	41.75	35	BED70	Minhsiung (BCC), Taiwan
7189	41.73	20		Tel Aviv, Israel
7190	41.72	10		R. Free Europe, Germany
	41.72	100		R. Free Europe, Portugal
	41.72	30		Cotonou, Dahomey
	41.72	20/240		R. Peking, China
	41.72	10	8FW33	Djajapura, Indonesia
	41.72	1	HLK30	Seoul, Korea
7195	41.70	15/120		R. Bucharest, Rumania
	41.70	50		Tula, USSR
	41.70	250		Monrovia (VOA), Liberia
	41.70	100		R. Clube de Moçambique
	41.70	3/8		Kampala, Uganda
	41.70	10/100	VUD	AIR Delhi, India
	41.70	100		R. Japan, Japan
7200	41.67	10		R. Free Europe, Germany

kHz	m	kW	Call	Stations & Countries
7200	41.67	250		Woofferton (VOA), G.B.
	41.67	50		R. Free Europe, Portugal
	41.67	100		R. Belgrade, Yugoslavia
	41.67	7.5		Omdurman, Sudan
	41.67	50		R. Afghanistan, Afghan.
	41.67	1		Djakarta, Indonesia
	41.67	10		Penang, Malaysia
	41.67	10	BEC76	Taipei, Taiwan
7203	41.65	1	CR6RO	R. Clube do Bie, Angola
7205	41.64	35		Thessaloniki (VOA), Gre.
	41.64	50		Rhodes (VOA), Greece
	41.64	100		Moscow, USSR
	41.64	10	CR7RB	R. Pax, Moçambique
	41.64	10		R. Australia, Australia
7208	41.62	10		Lubumbashi,Congo(D.R.)
7210	41.61	75/250		BBC London, Gt. Britain
	41.61	100		R. Nederland, Holland
	41.61	100		R. Norway, Norway
	41.61	0.4		Ukesenderen, Norway
	41.61	25/100		Schwarzenburg, Switz.
	41.61	100		Moscow, USSR
	41.61	50		Vladivostok, USSR
	41.61	50		Khabarovsk, USSR
	41.61	10		Nairobi, Kenya
	41.61	4/100		Dakar, Senegal
	41.61	10	VUC	AIR Calcutta, India
	41.61			Hanoi, Viet. (Dem.Rep.)
7215	41.68	100		R. Free Europe, Portugal
	41.58	0.25	CR6RB	R. Ecclesia, Angola
	41.58	1		R. Abidjan, Ivory Coast
	41.58	100		R. Cairo, Egypt
	41.58	10		Tutong, Brunei
	41.58	10/100	VUD	AIR Delhi, India
	41.58	50		Karachi, Pakistan
	41.58	10		Quetta, Pakistan
	41.58	1		AFNT, Taiwan
7220	41.55	50		R. Liberty, Germany
	41.55	5		R. Budapest, Hungary
	41.55	50		Tanger (VOA), Morocco
	41.55	10		Lusaka, Zambia
	41.55	50		Jeddah, Saudi Arabia
	41.55	100		Kuala Lumpur, Malaysia
	41.55	100		R. Australia, Australia
7225	41.52	100		Deutsche Welle, Germany
	41.52	10		Sebaa-Aioun, Morocco
	41.52	250		Kigali (DW), Rwanda
	41.52	10/100	VUD	AIR Delhi, India
	41.52	2.7		R. Maldives, Maldive Rep.
	41.52	2	DZI9	Call of the Orient. Phil.
7230	41.49	100		BBC Limassol, Cyprus
	41.49	75/250		BBC London, Gt. Britain
	41.49	100		Trans World Radio, Mon.
	41.49	100		Kiev, USSR
	41.49	10		Tananarive, Mal. Rep.
	41.49	20		SABC, South Africa
	41.49	4		Ouagadougou, Upper Volta
	41.49	10		AIR Kurseong, India
	41.49	1		Biak, Indonesia
	41.49	5	JHK	Tokyo (NHK), Japan
	41.49	3/50	DZI9	Call of the Orient, Phil.
7235	41.47	100		R. Roma, Italy
	41.47	100		Riga, USSR
	41.47	10/100	VUD	AIR Delhi, India
	41.47	10/250		R. Kuwait, Kuwait
	41.47	7.5		BBC Tebrau, Malaysia
	41.47	10		Karachi, Pakistan
7240	41.44	50		Rhodes (VOA), Greece
	41.44	10		Tromsö, Norway
	41.44	240		Tula, USSR
	41.44	4/30		R. Garoua, Cameroon
	41.44	10		Nairobi, Kenya
	41.44	0.3		Beira, Moçambique
	41.44	120		Lusaka, Zambia
	41.44	10	VUB	AIR Bombay, India
	41.44	7.5	YDP3	Medan, Indonesia
	41.44	50		Karachi, Pakistan
	41.44	1.5	BEC28	Taipei, Taiwan
7245	41.41	100	OEI33	Vienna, Austria
	41.41	100		Deutsche Welle, Germany
	41.41	10		R. Free Europe, Germany
	41.41	50/250		R. Free Europe, Portugal
	41.41	50		Krasnoyarsk, USSR
	41.41	100	CR6RZ	Emiss. Oficial, Angola
	41.41	4		R. Mauritania, Mauritania
	41.41	4		St. Denis, Réunion
	41.41	20		Saigon, Vietnam
7250	41.38	250		Woofferton (VOA), G.B.
	41.38	240		Tula, USSR
	41.38	100		Vatican Radio
	41.38	10	BED21	Tamsui (BCC), Taiwan
	41.38	10		AIR Lucknow, India

kHz	m	kW	Call	Stations & Countries
7250	41.38	10		R. Singapore, Singapore
7255	41.35	50		R. Sofia, Bulgaria
	41.35	100		Allouis, France
	41.35	50		R. Free Europe, Germany
	41.35	50		R. Free Europe, Portugal
	41.35	10		Lagos (NBC), Nigeria
	41.35	0.25		Nampula, Moçambique
	41.35	10/100	VUD	AIR Delhi, India
	41.35	100		Okinawa (VOA),Ryuk.Isl.
7260	41.32	100		BBC Limassol, Cyprus
	41.32	75		BBC London, Gt. Britain
	41.32	50		Rhodes (VOA), Greece
	41.32	100		Trans World Radio, Mon.
	41.32	100		Minsk, USSR
	41.32	4		Moroni, Comoro Isl.
	41.32	100		SABC, South Africa
	41.32	100	VUM	AIR Madras, India
	41.32	7.5		Dacca, Pakistan
	41.32	3.5	BEC71	Air Force St, Taiwan
	41.32	20		Ulan Bator, Mongolia
	41.32	0.5	YJB7	R. Port Vila, New Heb.
7265	41.29	50/500		R. Tirana, Albania
	41.29	1.5	DRM32	Rohrdorf (SWF), Ger.
	41.29	150		Armavir, USSR
	41.29	100		Krasnoyarsk, USSR
	41.29	240		Riazan, USSR
	41.29	100		Cairo, Egypt
	41.29	100		Lomé, Togo
7270	41.27	100		Munich (VOA), Germany
	41.27	250		Woofferton (VOA), G.B.
	41.27	50		Rhodes (VOA), Greece
	41.27	50		Erevan, USSR
	41.27	50		Khabarovsk, USSR
	41.27	20/250		Monrovia (VOA), Liberia
	41.27	100		Tanger (VOA), Morocco
	41.27	20/250		RSA, South Africa
	41.27	20/240		R. Peking, China
	41.27	1		R. Kashmir, India
	41.27	10/20		R. Malaysia, Sarawak
	41.27	1.5	BEC34	Taipei, Taiwan
7275	41.24	100		Deutsche Welle, Germany
	41.24	100		R. Roma, Italy
	41.24	100		Trans World R, Monaco
	41.24	100		Minsk, USSR
	41.24	100		Lagos (NBC), Nigeria
	41.24	35		Colombo (VOA), Ceylon
	41.24	20/240		R. Peking, China
	41.24	10		Karachi, Pakistan
	41.24	35/100		Poro (VOA), Phil.
7280	41.21	100		Allouis, France
	41.21	100		Komsomolsk, USSR
	41.21	200		Moscow, USSR
	41.21	250		Monrovia (VOA), Liberia
	41.21	10		Dar es Salaam, Tanzania
	41.21	10		AIR Gauhati, India
	41.21	0.5	DXH2	Mindanao Bc, Phil.
	41.21	1.5	BEC24	Taipei, Taiwan
7285	41.18	100		Munich (VOA), Germany
	41.18	40		Warsaw, Poland
	41.18	18		R. Mali, Mali
	41.18	35/100		Tanger (VOA), Morocco
	41.18	100		Gwelo, Rhodesia
	41.18	0.25		Quelimane, Moçambique
	41.18	10/100	VUD	AIR Delhi, India
	41.18	10		Ibadan (NBC), Nigeria
	41.18	5	JKH3	Tokyo (NHK), Japan
7290r	41.15	120		R. Tirana, Albania
	41.15	32		Thessaloniki, Greece
	41.15	60/100		R. Roma, Italy
	41.15	100		Trans World Radio, Mon.
	41.15	100		Nikolaevsk, USSR
	41.15	10	CR6R6	R. Com. de Angola, An.
	41.15	10		Addis Ababa, Ethiopia
	41.15	10/100	VUD	AIR Delhi, India
7295	41.12	7.5/5		Athens, Greece
	41.12	250		R. Liberty, Spain
	41.12	50		Moscow, USSR
	41.12	20		R.Mbuji-Mayi,Congo(DR)
	41.12	10		Accra, Ghana
	41.12	5		Kisumu, Kenya
	41.12	1	YDS2	Menado, Indonesia
	41.12	10		Penang, Malaysia
7300r	41.09	50/240		R. Tirana, Albania
	41.09	5		R. Berlin Int, Germany
				7300-9500kHz
7305r	41.07	10		R. Biafra, Biafra
	41.07	20/240		R. Peking, China
	41.07	2.5		Bangkok, Thailand
7306	41.06	0.35		Pathfinders St, Poland
7310	41.04	50		Sverdlovsk, USSR
7315	41.01	50/240		Tirana (Peking relay)

kHz	m	kW	Call	Stations & Countries
7315	41.01	240		Leningrad, USSR
	41.01	100/240		R. Peking, China
7320	40.98	100		Minsk, USSR
	40.98	240		R. Peking, China
7323	40.97			Lanchow, China
7325	40.96	100		BBC London, Gt. Britain
	40.96	50		Orsha, USSR
7330	40.93	50		Minsk, USSR
7335	40.94	120/240		R. Peking, China
†7335	40.90	3	CHU	Dominion Observatory, Can.
7340	40.87	50		Krasnoyarsk, USSR
	40.87	10/50		Karachi, Pakistan
7345	40.85	100		Praha, Czechoslovakia
	40.85	50		Ulan Bator, Mongolia
7350	40.82	50		Minsk, USSR
	40.82	20/240		R. Peking, China
7360	40.76	100		Moscow, USSR
7370	40.71	100		Moscow, USSR
	40.71	120/240		R. Peking, China
7375	40.68	20/240		R. Peking, China
7380	40.65	50		Magadan, USSR
	40.65	100		Moscow, USSR
	40.65	50		Vladivostok, USSR
	40.65	20/240		R. Peking, China
7385	40.62			Urumchi, China
7390	40.59	100		Moscow, USSR
7400	40.53	100		Moscow, USSR
7420	40.44	100		Moscow, USSR
	40.44	20/240		R. Peking, China
†7428	40.39	6	FTH42	Pontoise, France
7435	40.35	20/240		R. Peking, China
7440	40.32	100		Moscow, USSR
7443	40.31	25	HBX37	UN (Geneva), Switz.
7450	40.27	1.75		Istanbul, Turkey
	40.27	120/240		R. Peking, China
7480	40.13	20/240		R. Peking, China
7490	40.05	20/240		R. Peking, China
7500	40.00	120/240		R. Peking, China
†	40.00	10	VNG	Lyndhurst, Australia
7526	39.83	20/240		R. Peking, China
7547	39.71		ZNX35	Bridgetown, Barbados
7580	39.22	20/240		R. Peking, China
	39.22	120/240		Pyongyang, Korea
7590	39.53	20/240		R. Peking, China
7620	39.37	20/240		R. Peking, China
7670	39.11	15		R. Sofia, Bulgaria
7720	38.86	20/240		R. Peking, China
7810	38.48	100		Moscow, USSR
7820	38.36	20/240		R. Peking, China
7883	38.06			Lanchow, China
†8090	37.08		NSS	Annapolis, USA
†8150	36.81		NPN	Guam
8190	36.64	20/240		R. Peking, China
8195	36.61			Fukien, China
8215	36.25	0.2		R. Shkodra, Albania
8240	36.41	20/240		R. Peking, China
8245	36.39	20/240		R. Peking, China
8260	36.32	20/240		R. Peking, China
8300	36.15	20/240		R. Peking, China
8325	36.03	20/240		R. Peking, China
8335	35.99	20/240		R. Peking, China
8345	35.95	20/240		R. Peking, China
8425	35.61	20/240		R. Peking, China
†8558	35.06		CCV	Valparaiso, Chile
†8638	34.72	10	DAM	Elmshorn, Germany
8660	34.64	20/240		R. Peking, China
†8721	34.40		PPE	Rio de Janeiro, Brazil
9009	33.30	7.5/50		Tel Aviv, Israel
9020	33.26	20/240		R. Peking, China
†9050	33.15		NPM	Honolulu, Hawaii
9060	33.11	120/240		R. Peking, China
9080	33.04	20/240		R. Peking, China
9170	32.72	20/240		R. Peking, China
9250	32.47	50		Alma Ata, USSR
†9277	32.34		NPG	San Francisco, USA
9290	32.29	20/240		R. Peking, China
9340	32.12	20/240		R. Peking, China
9350r	32.08	120		R. Tirana, Albania
9360	32.05	20/50		R. Nacional, Spain
9365	32.03	120/240		R. Peking, China
9370	32.02	100		R. Nacional, Spain
9375	32.00	100		R. Moscow, USSR
	32.00	50		Khabarovsk, USSR
9380	31.98	15		Alma Ata, USSR
	31.98	20/240		R. Peking, China
9390	31.95	50/500		R. Tirana, Albania
	31.95	20/240		R. Peking, China
9400	31.91	20/240		R. Peking, China
9410	31.88	100		BBC London, Gt. Britain
9440	31.78	20/240		R. Peking, China
9450	31.79	100		Moscow, USSR
9455	31.77	50/100		Cairo, Un. Arab Rep.
9457	31.77	240		R. Peking, China
9465	31.71	10/50		Karachi, Pakistan
9470	31.58	100		Moscow, USSR
9475	31.66	50/100		Cairo, Egypt
9480	31.65	100		Kiev, USSR
	31.65	50		Komsomolsk, USSR
	31.65	120/240		R. Peking, China
9490	31.61	50		Baku, USSR
	31.61	120/240		R. Peking, China
	31.61			Lhasa, Tibet
9495	31.60	50/100		Cairo, Egypt
9498	31.59			Sining, China
		9500-9775kHz (31 metre band)		
9500	31.58	100		R. Berlin Int, Germany
	31.58	100		Vilnius, USSR
	31.58	50		Khabarovsk, USSR
	31.58	100		Magadan, USSR
	31.58	20/240		R. Peking, China
	31.58	0.3	OAX6H	R. Tacna, Peru
9504	31.56	2	OAX8E	R. Loreto, Peru
9505	31.56	50/500		R. Tirana, Albania
	31.56	200		Praha, Czechoslovakia
	31.56	50		R. Free Europe, Portugal
	31.56	100		R. Moscow, USSR
	31.56	100		R. Belgrade, Yugoslavia
	31.56	35/100		Tanger (VOA), Morocco
	31.56	10		Lusaka, Zambia
	31.56	100		R. Japan, Japan
	31.56	50	DZH7	Call of the Orient, Phil.
	31.56	50	HISD	R.TV Dominica, Dom.Rep.
	31.56	1	CP64	R. Universo, Bolivia
	31.56	7.5/50	PRB22	R. Record, Brazil
9508	31.55	20/50		Omdurman, Sudan
9510	31.55	75/250		BBC London, Gt. Britain
	31.55	15/120		R. Bucharest, Rumania
	31.55	50		Alger, Algeria
	31.55	250		BBC, Ascension Island
	31.55	100		Kabul, Afghanistan
	31.55	100	VUM	AIR Madras, India
	31.55	100		Islamabad, Pakistan
	31.55	1	CE951	R. Corporación, Chile
	31.55	5	OAX4V	R. América, Peru
	31.55	10	YVXJ	R. Barquisimeto, Ven.
9515	31.53	5		Caltanisetta, Italy
	31.53	50		Erevan, USSR
	31.53	50		Krasnoyarsk, USSR
	31.53	30		Tananarive, Mal. Rep.
	31.53	10		Kuala Lumpur, Malaysia
	31.53	100	TAT	R. Ankara, Turkey
	31.53	10	XEWW	Voz de la Am. Lat, Mex.
	31.53	7.5	PRD5	R. Roquete Pinto, Br.
	31.53	10	CXA71	R. Sarandí, Uruguay
9520	31.51	50	OZF5	R. Denmark, Denmark
	31.51	50		R. Liberty, Germany
	31.51	100		Allouis, France
	31.51	100		Leningrad, USSR
	31.51	50		R. Kuwait, Kuwait
	31.51	10	VLT9	Port Moresby, N. Guinea
	31.51	7.5	ZL18	Wellington, New Zealand
	31.51	5	OAX4J	R. La Crónica, Peru
9525	31.50	100	OEI49	Vienna, Austria
	31.50	100		Warsaw, Poland
	31.50	100	ETLF	Addis Ababa, Ethiopia
	31.50	4		Libreville, Gabon
	31.50	250		RSA, South Africa
	31.50	100		R. Japan, Japan
	31.50	250		Bethany (VOA), USA
	31.50	50		R. Habana, Cuba
9530	31.48	240		Moscow, USSR
	31.48	250		Monrovia (VOA), Liberia
	31.48	35/100		Tanger (VOA), Morocco
	31.48	20		Dar es Salaam, Tanzania
	31.48	10/100	VUD	AIR Delhi, India
	31.48	10	VUC	AIR Calcutta, India
	31.48	100		R. Japan, Japan
	31.48	100		Amman, Jordan
	31.48	50/250		Tinang (VOA), Phil.
	31.48	50		Greenville (VOA/UN), USA
	31.48	1	CE953	R. El Morro, Chile
	31.48	0.3	OAX6G	R. Nacional, Tacna, Peru
	31.48	1	YVMZ	Maracaibo, Venezuela
9535	31.46	250		Schwarzenburg, Switz.
	31.46	100	CR6RZ	Emis. Oficial, Angola
	31.46	10/100	VUD	AIR Delhi, India
	31.46	35/100		Poro (VOA), Phil.
	31.46	10/20		R. Malaysia, Sarawak
9538	31.45	15		R. Maldives, Maldive Rep.
9540	31.45	100		Praha, Czechoslovakia
	31.45	35		Thessaloniki (VOA), Gre.
	31.45	40		Warsaw, Poland

kHz	m	kW	Call	Stations & Countries
9540	31.45	200		Petropavlovsk, USSR
	31.45	20		R. Lubumbashi, Congo
	31.45	35/100		Tanger (VOA), Morocco
	31.45	50		Ulan Bator, Mongolia
	31.45	100		R. Australia, Australia
	31.45	7.5	ZL2	Wellington, New Zealand
9545	31.43	100		Deutsche Welle, Germany
	31.43	100		Tema, Ghana
	31.43	35/100		Tanger (VOA), Morocco
	31.43	100		Beyrouth, Lebanon
	31.43	7.5	4VC	Voix de la Rev. Duv, Haiti
	31.43	0.25	XEFT	La Voz de V. Cruz, Mex.
	31.43	250		Delano (VOA), USA
	31.43	100	WNYW	R. New York, USA
	31.43	7.5	ZYZ43	R. Emis. Paranaense, Br.
	31.43	0.5	OAX4K	R. Central, Peru
9550	31.41	100	ORU	Wavre, Belgium
	31.41	15	OIX2	Pori, Finland
	31.41	120	LLD	R. Norway, Norway
	31.41	100		Cairo, Egypt
	31.41	50		Dar es Salaam, Tanzania
	31.41	10	VUB	AIR Bombay, India
	31.41	7.5	YDQ2	Makassar, Indonesia
	31.41	100		R. Australia, Australia
	31.41	1	YNTZ	R. Jinotega, Nicaragua
	31.41	5		Grenada, Windward Isl.
	31.41	1	CE955	R. Valentin Letelier, Chile
	31.41	1	OAX1Z	R. Nacional Tumbes, Peru
9555	31.40	50		R. Liberty, Germany
	31.40	100		Irkutsk, USSR
	31.40	50		Baghdad, Iraq
	31.40	5	YSS	R. Nacional, El Salvador
	31.40	1	XEQK	La Hora Exacta, Mexico
	31.40	10	CP6	R. Emis. del Estado, Bol.
9560	31.38	50		R. Sofia, Bulgaria
	31.38	100		Praha, Czechoslovakia
	31.38	100		Allouis, France
	31.38	100		R. Japan, Japan
	31.38	100		Amman, Jordan
	31.38	50		Karachi, Pakistan
	31.38	35		Okinawa (VOA),Ryuk.Isl.
	31.38	100		R. Australia, Australia
9562	31.37	50	OAX4R	R. Nacional, Lima, Peru
9565	31.36	10		R. Free Europe, Germany
	31.36	100		Deutsche Welle, Germany
	31.36	100		R. Free Europe, Portugal
	31.36	100		Moscow, USSR
	31.36	100		El Beida, Libya
	31.36	250		Kigali (DW), Rwanda
	31.36	10/20		R. Malaysia, Sarawak
	31.36	250		Dixon (VOA), USA
	31.36	250		Greenville (VOA), USA
	31.36	10	ZYK3	R.Jornal do Comercio,Br.
9570	31.35	100		Trans World Radio, Mon.
	31.35	15/120		R. Bucharest, Rumania
	31.35	100		R. Nacional, Spain
	31.35	100	ETLF	Addis Ababa, Ethiopia
	31.35	10		R. TV Kaduna, Nigeria
	31.35	250		RSA, South Africa
	31.35	100		Doha, Qatar
	31.35	7.5		BBC Tebrau, Malaysia
	31.35	50		R. Australia, Australia
	31.35	10	CE957	R. Portales, Chile
	31.35	10	OAX7F	R. Nacional Puno, Peru
	31.35	1	YVOM	R. San Cristóbal, Ven.
9575	31.33	100		Praha, Czechoslovakia
	31.33	60/100		R. Roma, Italy
	31.33	100		Trans World R, Monaco
	31.33	100	VUB	AIR Bombay, India
	31.33	50		Ulan Bator, Mongolia
	31.33	10	BED91	Taipei (BCC), Taiwan
	31.33	10		Godthåb, Greenland
9576	31.33			R.Comercial, El Salvador
9580	31.32	100/250		BBC London, Gt. Britain
	31.32	200		Kazan, USSR
	31.32	250		BBC, Ascension, Island
	31.32	100		Cairo, Egypt
	31.32	2.5		Lusaka, Zambia
	31.32	7.5		BBC, Tebrau, Malaysia
	31.32	100		R. Australia, Australia
	31.32	50/250		Tinang (VOA), Phil.
	31.32	7.5		Philippine Broadc. Sce.
	31.32	0.5	YNTD	R. Mar, Nicaragua
	31.32	5	HCJP1	R.Jesus de Gran Poder,Ec.
9585	31.30	100		Allouis, France
	31.30	100		Trans World Radio, Mon.
	31.30	50/100		R. Nacional, Portugal
	31.30	4		R. Niger, Niger
	31.30	50	YDF6	Djakarta, Indonesia
	31.30	30		Damascus, Syria
	31.30	50	ZYR56	R. Excelsior, Brazil
9585	31.30	100	HCJB	Voz de los Andes, Ec.
	31.30	0.5	OBX4K	R. Selecta, Peru
9588	31.29	50		Mogadiscio, Somali Rep.
9590	31.28	100		R. Nederland, Holland
	31.28	15/120		R. Bucharest, Rumania
	31.28	250		Schwarzenburg, Switz.
	31.28	50		Khabarovsk, USSR
	31.28	10		Gaberones, Botswana
	31.28	10	VUM	AIR Madras, India
	31.28	10/100	VUD	AIR Delhi, India
	31.28	50/500		Greenville (VOA), USA
	31.28	300		R. Nederland, Bonaire
	31.28	1	CE965	R. Pres. Balmaceda, Chile
	31.28	0.2	OAX5C	R. Ica, Peru
9595	31.27	50		R. Free Europe, Germany
	31.27	50		R. Free Europe, Portugal
	31.27	250		Schwarzenburg, Switz.
	31.27	30		Bangui,CentralAfricanRep.
	31.27	10/50	JOZ3	Tokyo (NSB), Japan
	31.27	250		Darwin, Australia
	31.27	10	ZYN29	R. Cultura da Bahia, Br.
9600	31.25	100		R. Berlin Int, Germany
	31.25	100		Praha, Czechoslovakia
	31.25	100		BBC Limassol, Cyprus
	31.25	75		BBC London, Gt. Britain
	31.25	50		Tashkent, USSR
	31.25	250		BBC, Ascension Island
	31.25	10/100	VUD	AIR Delhi, India
	31.25	1	XEYU	Universidad Nac, Mexico
	31.25	1	CP13	R. Augustine Aspiazu,Bol.
	31.25	0.5	OAX3E	R. Huaráz, Peru
	31.25	0.45	OAX1R	R. Talara, Peru
9605	31.23	100		Praha, Czechoslovakia
	31.23	100		Deutsche Welle, Germany
	31.23	5/7.5		Athens, Greece
	31.23	100		Trans World Radio, Mon.
	31.23	50		Serpukhov, USSR
	31.23	10/20		R. Malaysia, Sarawak
	31.23	100		Dixon (VOA), USA
	31.23	50		Trans World Radio,Bonaire
	31.23	100	HCJB	Voz de los Andes, Ec.
9610	31.22	100		Vienna, Austria
	31.22	100		Deutsche Welle, Germany
	31.22	120	LLG	R. Norway, Norway
	31.22	120		Tula, USSR
	31.22	50		Khabarovsk, USSR
	31.22	50		R. TV Congolaise, Congo
	31.22	10		Addis Ababa, Ethiopia
	31.22	30		R. Mauritania, Mauritania
	31.22	10/50	VLW9	Perth, Australia
	31.22	50		R. Canada, Canada
	31.22	10	ZYC9	R. Tamoio, Brazil
	31.22	1	OAX8C	R. Nacional Iquitos, Peru
9615	31.20	100		Vatican Radio
	31.20	1	CR6RI	R. Diamang, Angola
	31.20	4		Fort Lamy, Chad
	31.20	100		Tanger (RTM), Morocco
	31.20	100		Tanger (VOA), Morocco
	31.20	50/250		Tinang (VOA), Phil.
	31.20	100	WNYW	R. New York, USA
	31.20	50	TIRICA	Voz de la Victor, C. Rica
9618	31.19	0.6	OBX7E	R. El Sol, Peru
9620r	31.19	120		R. Tirana, Albania
	31.19	50		R. Sofia, Bulgaria
	31.19	100		Allouis, France
	31.19	120		Moscow, USSR
	31.19	50		Krasnoyarsk, USSR
	31.19	100		R. Belgrade, Yugoslavia
	31.19	100		R. Clube de Moçambique
	31.19	20/200		Saigon, Vietnam
	31.19	10	TGNB	R. Cultural, Guatemala
	31.19	10	ZYR97	R. Novo de Julho, Brazil
	31.19	20	CXA6	S.O.D.R.E., Uruguay
9625	31.17	100		BBC Limassol, Cyprus
	31.17	100		BBC London, Gt. Britain
	31.17	100		Hörby, Sweden
	31.17	120		Tbilisi, USSR
	31.17	100		Cairo, Egypt
	31.17	20/100	4XB71	Tel Aviv, Israel
	31.17	50		R. Canada, Canada
	31.17	1	OAX8K	R. Atlantida, Peru
9630	31.15	100/200		Praha, Czechoslovakia
	31.15	100		Trans World Radio, Mon.
	31.15	200		Serpukhov, USSR
	31.15	100		Armavir, USSR
	31.15	100		Vatican Radio
	31.15	1	CR6RL	R. Cl de Angola, Angola
	31.15	100		Cairo, Egypt
	31.15	3	BED33	Minhsiung (BCC), Taiwan
	31.15	10/100	VUD	AIR Delhi, India
	31.15	250		Tinang (VOA), Phil.

kHz	m	kW	Call	Stations & Countries
9630	31.15	50	DZH5	Dumaguete City, Phil.
	31.15	50		R. Canada, Canada
9635	31.14	75		BBC London, Gt. Britain
	31.14	100		Trans World Radio, Mon.
	31.14	40		Warsaw, Poland
	31.14	18		R. Mali, Mali
	31.14	50		Vladivostok, USSR
	31.14	50		R. Singapore, Singapore
	31.14	0.25	4VU	R. Lumière, Haiti
	31.14	500		Greenville (VOA), USA
	31.14	7.5	ZYR83	R. Aparecida, Brazil
	31.14	20	HJCQ	R. Nacional, Colombia
	31.14	1	OCX4K	R. Expreso, Peru
9640	31.12	100		Deutsche Welle, Germany
	31.12	75/100		BBC London, Gt. Britain
	31.12	120		Moscow, USSR
	31.12	20		Ejura, Ghana
	31.12	50	HLK5	Suwon, Korea
	31.12	250		Greenville (VOA), USA
	31.12	10	YVSC	R. Nacional, Ven.
9645	31.10	120		R. Norway, Norway
	31.10	100		Vatican Radio
	31.10	50		Khabarovsk, USSR
	31.10	100		Cairo, Egypt
	31.10	10/100	VUD	AIR Delhi, India
	31.10	10		Karachi, Pakistan
	31.10	2	TIFC	Faro del Caribe, C. Rica
	31.10	7.5	ZYV40	R. Cultura de Poços, Br.
	31.10	0.5	OAX1T	R. Grau, Peru
9650	31.09	100		BBC Limassol, Cyprus
	31.09	100		BBC London, Gt. Britain
	31.09	100		Deutsche Welle, Germany
	31.09	100		Trans World R, Monaco
	31.09	100		Moscow, USSR
	31.09	50		Conakry, Guinea Rep.
	31.09	20		SABC, South Africa
	31.09	50/250		Tinang (VOA), Phil.
	31.09	100		Darwin, Australia
	31.09	500		Greenville (VOA), USA
	31.09	1	CE965	R. Yungay, Chile
	31.09	100	HCJB	Vos de los Andes, Ec.
9655	31.07	100		Deutsche Welle, Germany
	31.07	100		Trans World R, Monaco
	31.07	100		Chita, USSR
	31.07	10		Kaduna (NBC), Nigeria
	31.07	5	JKH2	Tokyo (NHK), Japan
	31.07	10		Godthåb, Greenland
	31.07	250		Bethany (UN), USA
	31.07	100	HCJB	La Voz de Los Andes, Ec.
	31.07	1	OAX9G	R. Nor Peruana, Peru
9660	31.06	100		Munich (VOA), Germany
	31.06	35		Thessaloniki (VOA), Gre.
	31.06	250		R. Liberty, Spain
	31.06	100		Minsk, USSR
	31.06	10	CR6RZ	Emiss. Oficial, Angola
	31.06	35	BED42	Minhsiung (BCC), Taiwan
	31.06	50		Kuala Lumpur, Malaysia
	31.06	10	VLQ9	Brisbane, Australia
9665	31.04	100		Trans World Radio, Mon.
	31.04	100		Hörby, Sweden
	31.04	250		Schwarzenburg, Switz.
	31.04	50		Omsk, USSR
	31.04	120		Ivanofrankovsk, USSR
	31.04	20/240		R. Peking, China
	31.04	50/250		Tinang (VOA), Philippines
	31.04	10	PRL	R. Nac. Brasilia, Br.
	31.04	1	OAX8U	R. Eco, Peru
9670	31.02	35		Thessaloniki (VOA), Gre.
	31.02	50/100		R. Nacional, Portugal
	31.02	100		Vatican Radio
	31.02	100		Colombo, Ceylon
	31.02	100		R. Japan, Japan
	31.02	50		Jeddah, Saudi Arabia
	31.02	250/500		Greenville (VOA), USA
9675	31.01	100		Warsaw, Poland
	31.01	240		Voronej, USSR
	31.01	10/100	VUD	AIR Delhi, India
	31.01	100		R. Japan, Japan
	31.01	7.5	ZYT29	R. Diário da Manha, Br.
	31.01	7.5	OAZ4L	R. del Pacifico, Peru
9680	30.99	50		R. Liberty, Germany
	30.99	50/100		R. Nacional, Portugal
	30.99	250		R. Liberty, Spain
	30.99	100	ETLF	Addis Ababa, Ethiopia
	30.99	35/100		Tanger (VOA), Morocco
	30.99	20		SABC, South Africa
9680	30.99	10/100	VUD	AIR Delhi, India
	30.99	10	VLH/R9	Melbourne, Australia
	30.99	10		R. Habana, Cuba
	30.99	100	HCJB	Voz de los Andes, Ec.
9685	30.98	240		Moscow, USSR

kHz	m	kW	Call	Stations & Countries
9685	30.98	50		Erevan, USSR
	30.98	50		Alger, Algeria
	30.98	100		Cairo, Egypt
	30.98	25	BED73	Taipei (BCC), Taiwan
	30.98	1	HOF31	Onda Popular, Panama
	30.98	10	ZYR227	R. Gazeta, Brazil
9690	30.96	100		BBC Limassol, Cyprus
	30.96	100		Deutsche Welle, Germany
	30.96	75		BBC London, Gt. Britain
	30.96	15/120		R. Bucharest, Rumania
	30.96	100		Novosibirsk, USSR
	30.96	30		Tananarive, Mal. Rep.
	30.96	250		Kigali (DW), Rwanda
	30.96	10	BED22	Tamsui (BCC), Taiwan
	30.96	10/100	VUD	AIR Delhi, India
	30.96	0.25	DZH5	R. Veritas, Phil.
	30.96	100	WNYW	R. New York, USA
	30.96	100	LRA32	R. Nacional, Argentina
	30.96	1	CE969	La Voz de Chile, Chile
9695	30.94	10/50		R. Free Europe, Germany
	30.94	50		R. Free Europe, Portugal
	30.94	100	ETLF	Addis Ababa, Ethiopia
	30.94	50		R. Cambodge, Cambodia
	30.94	10/100	VUD	AIR Delhi, India
	30.94	1	ZK3	Rarotonga, Cook Islands
	30.94	50		Trans World R, Bonaire
	30.94	7.5	ZYB22	R. Rio-Mar, Brazil
	30.94	1	OCX4Y	R. Continente, Peru
9700	30.93	120		R. Sofia, Bulgaria
	30.93	100		Allouis, France
	30.93	50		Karachi, Pakistan
	30.93	100		Cairo, Egypt
	30.93	100		Delano (AFRTS), USA
	30.93	1	YVTH	R. Sucesos, Ven.
9705	30.91	10		R. Free Europe, Germany
	30.91	50		R. Free Europe, Portugal
	30.91	100	ETLF	Addis Ababa, Ethiopia
	30.91	30		R. Niger, Niger
	30.91	250		RSA, South Africa
	30.91	10/100	VUD	AIR Delhi, India
	30.91	100		R. Japan, Japan
	30.91	10	ZYZ24	R. Mauá, Brazil
9710	30.90	250		BBC London, Gt. Britain
	30.90	35		Thessaloniki, Greece
	30.90	50/60/100		R. Roma, Italy
	30.90	240		Kiev, USSR
	30.90	10		Forest Side, Mauritius
	30.90	10		Penang, Malaysia
	30.90	7.5	LRX2	R. El Mundo, Argentina
	30.90	30/100	HCJB	La Voz de los Andes, Ec.
	30.90	1	OAX9D	R. Tropical, Peru
9715r	30.88	120		R. Tirana, Albania
	30.88	35		Thessaloniki (VOA), Gre.
	30.88	100		R. Nederland, Holand
	30.88	50		R. TV Congolaise, Congo
	30.88	100		Cairo, Egypt
	30.88	35/100		Tanger (VOA), Morocco
	30.88	250		RSA, South Afrcia
	30.88	10/50	DZF5	Call of the Orient, Phil.
	30.88	300		R. Nederland, Neth. Ant.
	30.88	1	CP21	R. La Plata, Bolivia
9720	30.86	250		Schwarzenburg, Switz.
	30.86	120		Riazan, USSR
	30.86	20		SABC, South Africa
	30.86	100		Colombo, Ceylon
	30.86	10		AIR Hyderabad, India
	30.86	50		Riyadh, Saudi Arabia
	30.86	50	PRL8	R. Nacional, Brazil
	30.86	1	OCX4C	R. Victoria, Peru
	30.86	1	YVTR	R. Merida, Venezuela
9725	30.85	10		R. Free Europe, Germany
	30.85	50/100		R. Free Europe, Portugal
	30.85	100	ETLF	RVOG, Ethiopia
	30.85	100		Tel Aviv, Israel
	30.85	7.5		BBC Tebrau, Malaysia
	30.85	50		Greenville (VOA), USA
9730	30.83	50		R. Berlin Int, Germany
	30.83	15		R. Brazzaville, Congo
	30.83	50		TransWorldRadio,Bonaire
	30.83	7.5	ZYU59	R. Farroupilha, Brazil
9735	30.82	100		Deutsche Welle, Germany
	30.82	100		Trans World Radio, Mon.
	30.82	240		Nikolaievsk, USSR
	30.82	100		Tula, USSR
	30.82	100		Cairo, Egypt
	30.82	250		Monrovia (VOA), Liberia
	30.82	250		Kigali (DW), Rwanda
	30.82	100		R. Japan, Japan
	30.82	100		Dixon (VOA/UN), USA
9740	30.80	20/100	ORU	Wavre, Belgium
	30.80	250		Woofferton (VOA), G.B.

kHz	m	kW	Call	Stations & Countries
9740	30.80	50/100		R. Nacional, Portugal
	30.80	100		Cairo, Egypt
	30.80	35/100		Tanger (VOA), Morocco
	30.80	10/100	VUD	AIR, Delhi, India
	30.80	7.5		BBC Tebrau, Malaysia
	30.80	50/500		Greenville (VOA), USA
	30.80	2	LRS1	R. Splendid, Argentina
	30.80	10	OCY4F	R. Los Andes, Peru
9745	30.78	240		Moscow, USSR
	30.78	50		R. Mali, Mali
	30.78	5	8FW30	Djajapura, Indonesia
	30.78	3.5	BEC62	Air Force St, Taiwan
	30.78	20	TAP	R. Ankara, Turkey
	30.78	7.5	ZYR57	R. Cultura, Brazil
	30.78	100	HCJB	La Voz de los Andes, Ec.
9748r	30.77	120		R. Tirana, Albania
9750	30.77	50		R. Liberty, Germany
	30.77	100		BBC London, Gt. Britain
	30.77	250		R. Liberty, Spain
	30.77	250		Monrovia (VOA), Liberia
	30.77	100	VUM	AIR Madras, India
	30.77	50		Karachi, Pakistan
	30.77	5	CE975	Soc. Nac. Mineria, Chile
	30.77	1	YVOS	R. Tovar, Ven.
9755	30.75	100		Cairo, Egypt
	30.75	10/50		Karachi, Pakistan
	30.75	10		Saigon, Vietnam
	30.75	140		Bethany (AFRTS), USA
	30.75	7.5	ZYW23	R. Brasil Central, Brazil
	30.75	2.1	OAX8W	R. Sideral, Peru
9760r	30.74	120		R. Tirana, Albania
	30.74	100		Munich (VOA), Germany
	30.74	20/50		R. Nacional, Spain
	30.74	100		Ivanofrankovsk, USSR
	30.74	4/30		R. Yaounde, Cameroon
	30.74	250		Ejura, Ghana
	30.74	35/100		Tanger (VOA), Morocco
	30.74	10	JOZ7	Tokyo (NSB), Japan
	30.74	35/100		Poro (VOA), Philippines
	30.74			Hanoi, Viet. (Dem. Rep.)
	30.74	10	TGWA	La Voz de Guatemala
9765	30.72	100		Deutche Welle, Germany
	30.72	75/250		BBC London, Gt. Britain
	30.72	100		Armavir, USSR
	30.72	20/240		R. Peking, China
	30.72	10/100	VUD	AIR Delhi, India
	30.72	100		R. Japan, Japan
	30.72	50	BED66	Taipei (BCC), Taiwan
9770	30.71	100	OEI47	Vienna, Austria
	30.71	75		BBC London, Gt. Britain
	30.71	100		Sverdlovsk, USSR
	30.71	50		Khabarovsk, USSR
	30.71	100		Vladivostok, USSR
	30.71	100		Cairo, Egypt
	30.71	100		Djakarta, Indonesia
	30.71	500		Tinang (VOA), Philippines
	30.71	500		Greenville (VOA), USA
	30.71	0.5	4VEH	R. St. 4VEH, Haiti
	30.71	10	PRL4	R. Min. Educação, Brazil
	30.71	1	OAX8O	R. Amazonas, Peru
			9775-11700kHz	
9775	30.69	10		Kinshasa, Con.(Dem.Rep.)
9780	30.67	240		Tirana (Peking relay)
9785	30.66	50		Erevan, USSR
	30.66	20/240		R. Peking, China
9790	30.64	50		Moscow, USSR
9795	30.63	100		R. Moscow, USSR
	30.63	50/100		Cairo, Egypt
9800	30.61	50		Kazan, USSR
	30.61	20/240		R. Peking, China
9805	30.60	50/100		Cairo, Egypt
9810	30.58	50		Moscow, USSR
	30.58	20/240		R. Peking, China
9825	30.53	75		BBC London, Gt. Britain
	30.53	100		R. Moscow, USSR
9830	30.52	50/100		Cairo, Egypt
9833	30.51	15/100		R. Budapest, Hungary
9840	30.49	20/240		R. Peking, China
	30.49			Hanoi, Viet. (Dem. Rep.)
9850	30.45	50/100		Cairo, Egypt
9860	30.43	240		R. Peking, China
	30.43	50/100		Cairo, Egypt
9870	30.40	20/240		R. Peking, China
9912	30.27	10/100	VUD	AIR Delhi, India
9915	30.26	75		BBC London, Gt. Britain
	30.26	20		Deregawa(VUNC),Ry.Isl.
9920	30.24	120/240		R. Peking, China
9940	30.18			R. Nordsee International
9945	30.17	20/240		R. Peking, China
9955	30.14	20/240		R. Peking, China
9965	30.11	20/240		R. Peking, China

kHz	m	kW	Call	Stations & Countries
9972	30.08	20/240		R. Peking, China
9990	30.03			Kunming, China
*10000	30.00	0.5	MSF	Teddington, Gt. Britain
*	30.00	20	RWM	Moscow, USSR
†	30.00	0.25	ZUO	Johannesburg, S. Africa
*	30.00		BVP	R. Peking, China
*	30.00	2	ATA	New Delhi, India
*	30.00	2	JJY	Tokyo, Japan
*	30.00	2	WWVH	Puunene, Hawaii
*10000	30.00	10	WWH	Fort Collins, USA
†	30.00	2	LOL	Buenos Aires, Argentina
10250	29.24	20/240		R. Peking, China
10260	29.24	10/240		R. Peking, China
10335	29.03	10/100	VUD	AIR Delhi, India
10530	28.50	50		Alma Ata, USSR
10650	28.17	5		Ulan Bator, Mongolia
10657	28.17	20/240		R. Peking, China
†10775	27.84	6	FTK77	Pontoise, France
10840	27.60	20/240		R. Peking, China
11000	27.27	20/240		R. Peking, China
11015	27.25		ZNX49	Bridgetown, Barbados
11040	27.17			Huhehot, Inner Mongolia
11045	27.17	20/240		R. Peking, China
†11080	27.08		NBA	Canal Zone, Panama
11100	27.03	20/240		R. Peking, China
11120	26.96	20/240		R. Peking, China
11205	26.77	20/240		R. Peking, China
11290	26.57	20/240		R. Peking, China
11330	26.48	20/240		R. Peking, China
11445	26.21	120/240		R. Peking, China
11455	26.19	20/240		R. Peking, China
11505	26.08	240		R. Peking, China
11520	26.05	20/240		R. Peking, China
11570	25.93	50		Moscow, USSR
11590	25.88	20/240		R. Peking, China
11600	25.86	50		R. Moscow, USSR
	25.86	20/240		R. Peking, China
11610	25.84	20/240		R. Peking, China
11620	25.82	10/100	VUD	AIR Delhi, India
11630	25.80	50		R. Moscow, USSR
	25.80	50/100		Cairo, Egypt
	25.80	20/240		R. Peking, China
11650	25.75	50/100		Cairo, Egypt
	25.75	20/240		R. Peking, China
11660	25.73	50		R. Moscow, USSR
	25 73	5		R. Hargeisa, Somali
	25.73	240		R. Peking, China
11672	25.70	7.5		Dacca, Pakistan
	25.70	10/50		Karachi, Pakistan
11675	25.70	120/240		R. Peking, China
11685	25.67	100		R. Moscow, USSR
11690	25.66	50		Erevan, USSR
	25.66	50		Petrapavlovsk, USSR
	25.66	240		R. Peking, China
			11700-11975kHz	**(25 metre band)**
11700	25.64	100		R. Berlin Int, Germany
	25.64	50/100		Leningrad, USSR
	25.64	120		Serpukhov, USSR
	25.64	20/240		R. Peking, China
	25.64	0.5	TGQB	Quetzaltenango, Guat.
	25.64	5		Grenada, Windward Is.
11705	25.63	100		Trans World Radio. Mon.
	25.63	100		Hörby, Sweden
	25.63	240		Serpukhov, USSR
	25.63	100		Vatican Radio
	25.63	100		R. Japan, Japan
	25.63	100		Islamabad, Pakistan
	25.63	10/50		Karachi, Pakistan
	25.63	500		Greenville (VOA), USA
11710	25.62	250		Woofferton (VOA), G.B.
	25.62	50		Rhodes (VOA), Greece
	25.62	100		R. Nacional, Spain
	25.62	50		Moscow, USSR
	25.62	50		R. Brazzaville, Congo
	25.62	35/100		Tanger (VOA), Morocco
	25.62	10/100	VUD	AIR Dehi, India
	25.62	50		R. Australia, Australia
	25.62	100	LRA35	R. Nacional, Argentina
11715r	25.61	120		R. Tirana, Albania
	25.61	20/100	ORU	Wavre, Belgium
	25.61	250		Schwarzenburg, Switz.
	25.61	240		Orcha, USSR
	25.62	10/100	VUD	AIR Delhi, India
	25.61	50/100	YDF7	Djakarta, Indonesia
	25.61	50		Tinang (VOA), Phil.
11718r	25.60		XERMX	R. Mexico, Mexico
11720	25.60	100		BBC Limassol, Cyprus
	25.60	7.5/5		Athens, Greece
	25.60	250		Schwarzenburg, Switz.
	25.60	100		Chita, USSR
	25.60	100		Vatican Radio

kHz	m	kW	Call	Stations & Countries
11720	25.60	10		Kinshasa, Congo (D.R.)
	25.60	20/240		R. Peking, China
	25.60	50		R. Canada, Canada
	25.60	10	PRL	R. Nacional Brasilia, Br.
11725	25.59	50/250		R. Free Europe, Portugal
	25.59	100		Omsk, USSR
	25.59	50		R. Brazzaville, Congo
	25.59	20/240		R. Peking, China
	25.59	50		R. Liberty, Taiwan
	25.59	10/100	VUD	AIR Delhi, India
	25.59	50/500		Greenville (VOA), USA
11730	25.58	100		R. Nederland, Holland
	25.58	50		Vinnitsa, USSR
	25.58	100	ETLF	Addis Ababa, Ethiopia
	25.58	100		R. Iran, Iran
	25.58	50		Tinang (VOA), Phil.
	25.58	300		R. Nederland, Bonaire
11735	25.56	100	LKJ	R. Norway, Norway
	25.56	240		Vinnitsa, USSR
	25.56	100		R. Belgrade, Yugoslavia
	25.56	100	ETLF	Addis Ababa, Ethiopia
	25.56	100		Tanger, Morocco
	25.56	100		SABC, South Africa
	25.56	10/250		R. Kuwait, Kuwait
	25.56	7.5	ZYW28	R. Clube de Goiania, Br.
	25.56	100	HCJB	Vos de los Andes, Ec.
	25.56	10	CXA7	R. Oriental, Uruguay
11740	25.55	50/500		R. Tirana, Albania
	25.55	50		Novosibirsk, USSR
	25.55	100		Vatican Radio
	25.55	250		Monrovia (VOA), Liberia
	25.55	10/100	VUD	AIR Delhi, India
	25.55	100		R. Australia, Australia
	25.55	100		Bethany (VOA), USA
	25.55	250		Greenville (VOA/UN),USA
	25.55	5	XEMP	R. Dif. XEMP, Mexico
	25.55	5	CE1174	R. Nuevo Mundo, Chile
11745	25.54	30		Nicosia (CBC), Cyprus
	25.54	100		Allouis, France
	25.54	50		Erevan, USSR
	25.54	240		Minsk, USSR
	25.54	100		Vatican Radio
	25.54	100		Cairo, Egypt
	25.54	10		Godthåb, Greenland
	25.54	7.5	ZYR65	R. Piratininga, Brazil
11750	25.53	75/250		BBC London, Gt. Britain
	25.53	100		Moscow, USSR
	25.53	50		R. Mali, Mali
	25.53	10/1		Tokyo (FEN), Japan
	25.53	7.5/75		BBC Tebrau, Malaysia
11755	25.52	240		Leningrad, USSR
	25.52	240		Tbilisi, USSR
	25.52	100		Vladivostok, USSR
	25.52	100		Tripoli, Libya
	25.52			Hanoi, Viet. (Dem. Rep.)
	25.52	7.5	LRX	R. El Mundo, Argentina
	25.52	100	HCJB	La Voz de los Andes, Ec.
11760	25.51	35		Thessaloniki (VOA), Gre.
	25.51	250		Schwarzenburg, Switz.
	25.51	100		Kharkov, USSR
	25.51	100		Vatican Radio
	25.51	35/100		Tanger (VOA), Morocco
	25.51	20		SABC, South Africa
	25.51	0.25	ZK4	R. Rarotonga, Cook Isl.
	25.51	500		Greenville (VOA), USA
	25.51	100		R. Habana, Cuba
11765	25.50	50		R. Sofia, Bulgaria
	25.50	100		Deutsche Welle, Germany
	25.50	100		Erevan, USSR
	25.50	100		Leningrad, USSR
	25.50	100		Sverdlovsk, USSR
	25.50	10/100	VUD	AIR Delhi, India
	25.50	120/240		Pyongyang, Korea (D.R.)
	25.50	25	ZYB8	R. Dif. São Paulo, Br.
	25.50	100	HCJB	La Voz de los Andes, Ec.
11770	25.49	75/250		BBC London, Gt. Britain
	25.49	250		R. Liberty, Spain
	25.49	100	ETLF	Addis Ababa, Ethiopia
	25.49	250		Monrovia (VOA), Liberia
	25.49	100		Lagos (NBC), Nigeria
	25.49	20	YDE	Djakarta, Indonesia
	25.49	100	WNYW	R. New York, USA
	25.49			R. Monagas, Ven.
11775	25.48	250		Schwarzenburg, Switz.
	25.48	120		Kursk, USSR
	25.48	240		Armavir, USSR
	25.48	100		Vilnius, USSR
	25.48	20/240		R. Peking, China
	25.48	50		Poro (VOA), Phil.
	25.48	50/260		Trans World R, Bonaire
	25.48	10	CP39	La Cruz del Sur, Bolivia
11780	25.47	75/100		BBC London, Gt. Britain
	25.47	100		Cairo, Egypt
	25.47	7.5		R. Clube de Moçambique
	25.47	100		R. Japan, Japan
	25.47	100		R. Australia, Australia
	25.47	50		R. Canada, Canada
	25.47	7.5	ZL3	Wellington, New Zealand
	25.47	7.5/8	LRY2	R. Belgrano, Argentina
	25.47	100	HCJB	La Voz de los Andes, Ec.
11785	25.46	100		Vienna, Austria
	25.46	100		Deutsche Welle, Germany
	25.46	100		R. Nederland, Holland
	25.46	100		Hörby, Sweden
	25.46	100		Sverdlovsk, USSR
	25.46	240		Vinnitsa, USSR
	25.46	30		R. Niger, Niger
	25.46	250		Kigali (DW), Rwanda
	25.46	1.5	YDQ3	Makassar, Indonesia
	25.46	0.5		Djajapura, Indonesia
	25.46	50		Baghdad, Iraq
	25.46	100		Poro (VOA), Phil.
	25.46	7.5	ZYU61	R. Guaiba, Brazil
11790	25.45	35		Thessaloniki (VOA), Gre.
	25.45	15/120		R. Bucharest, Rumania
	25.45	35/100		Tanger (VOA), Morocco
	25.45	50		Kabul, Afghanistan
	25.45	20/240		R. Peking, China
	25.45	10/100	VUD	AIR Delhi, India
	25.25	50/250		Tinang (VOA), Phil.
	25.45	50		Poro (VOA), Phil.
	25.45	100		R. Australia, Australia
	25.45	250		Greenville (VOA), USA
11795	25.43	100		Deutsche Welle, Germany
	25.43	10		Kinshasa, Congo (D.R.)
	25.43	100		Tripoli, Libya
	25.43	35/100		Tanger (VOA), Morocco
	25.43	20/240		R. Peking, China
	25.43	50	WINB	Red Lion, USA
	25.43	10	PRI39	R. Nacional Rio, Brazil
11800	25.42	100		Praha, Czechoslovakia
	25.42	60		R. Roma, Italy
	25.42	100		R. Moscow, USSR
	25.42	50		R. Nac. España, CanaryIsl.
	25.42	250		Ejura, Ghana
	25.42	35		Colombo, Ceylon
	25.42	50		Trans World R, Bonaire
11805	25.41	10	OIX8	Pori, Finland
	25.41	35		Thessaloniki (VOA), Gre.
	25.41	50		Kazan, USSR
	25.41	100		Cairo, Egypt
	25.41	10/100	VUD	AIR Delhi, India
	25.41	10		Dacca, Pakistan
	25.41	10/50		Karachi, Pakistan
	25.41	50		Tinang (VOA), Philippines
	25.41	250		Greenville (VOA), USA
	25.41	250		Delano (AFRTS), USA
	25.41	5	CE1180	R. Soc.Nac.Agricult,Chile
	25.41	10	ZYZ36	R. Globo, Brazil
11810	25.40	100		R. Berlin Int, Germany
	25.40	60/100		R. Roma, Italy
	25.40	18/120		Bucharest, Rumania
	25.40	240		Simferopol, USSR
	25.40	50		Alger, Algeria
	25.40	20		SABC, South Africa
	25.40	10/100	VUD	AIR Delhi, India
	25.40	5		Amman, Jordan
	25.40	100		Beyrouth, Lebanon
	25.40	50		Ulan Bator, Mongolia
	25.40	100		R. Australia, Australia
	25.40	250		Bethany (UN), USA
11815	25.39	100		Warsaw, Poland
	25.39	100		Trans World R, Monaco
	25.39	250		R. Free Europe, Portugal
	25.39	100		R. Japan, Japan
	25.39	100		Beyrouth, Lebanon
	25.39	7.5	ZYW24	R. Brazil Central, Brazil
11820	25.38	100		R. Berlin Int. Germany
	25.38	100		Murmansk, USSR
	25.38	120		Tbilisi, USSR
	25.38	250		BBC, Ascension Island
	25.38	100	ETLF	Addis Ababa, Ethiopia
	25.38	25		R. Clube de Moçambique
	25.38	50		Trans WorldRadio,Bonaire
	25.38	1	XEBR	Heraldo de Sonoro, Mex.
11825	25.37	50		R. Free Europe, Germany
	25.37	50		R. Free Europe, Portugal
	25.37	10/250		R. Kuwait, Kuwait
	25.37	25	BED69	Taipei (BCC), Taiwan
	25.37	4		Papéete, Tahiti
	25.37	10	ZYK69	R. Jornal do Comercio,Br.
11830	25.36	100		Moscow, USSR

kHz	m	kW	Call	Stations & Countries
11830	25.36	50/250		Tinang (VOA), Phil.
	25.36	35/100		Okinawa (VOA), Ryuk.Isl.
	25.36	250		Bethany (VOA), USA
	25.36	250		Greenville (VOA), USA
	25.36	250		Delano(VOA), USA
11835	25.35	100		Alger, Algeria
	25.35	50/100		Omdurman, Sudan
	25.35	35		Colombo (VOA), Ceylon
	25.35	100		R. Veritas, Phil.
	25.35	140/250		Bethany (VOA), USA
	25.35	2.5	4VEJ	R. St. 4VEH, Haiti
	25.35	5	CXA19	El Espectador, Uruguay
11840	25.34	100		Warsaw, Poland
	25.34	50/100	CSA31	R. Nacional, Portugal
	25.34	20		SABC, South Africa
	25.34			Hanoi Viet. (Dem. Rep.)
	25.34	250		Darwin, Australia
	25.34	10		R. Australia, Australia
11845r	25.33	120		R. Tirana, Albania
	25.33	100		Allouis, France
	25.33	100		Trans World Radio, Mon.
	25.33	50		Kazan, USSR
	25.33	100		R. Clube de Moçambique
	25.33	250		Greenville (VOA), USA
11850	25.32	100	LLK	R. Norway, Norway
	25.32	100		Kazan, USSR
	25.32	100		Vatican Radio
	25.32	100	ETLF	Addis Ababa, Ethiopia
	25.32	250		Ejura, Ghana
	25.32	10/100	VUD	AIR Delhi, India
	25.32	50		Ulan Bator, Mongolia
	25.32	7.5		BBC Tebrau, Malaysia
	25.32	250		Dixon (VOA), USA
	25.32	1	CE1185	R. Cruz del Sur, Chile
	25.32	3	ZPA3	R. Teleco, Paraguay
11855r	25.31	120		Tirana (Peking relay)
	25.31	100		Cairo, Egypt
	25.31	10/100	VUD	AIR Delhi, India
	25.31	50	DZH8	Call of the Orient, Phi.
	25.31	50		Jeddah, Saudi Arabia
	25.31	100	WNYW	R. New York, USA
11860r	25.30	120		R. Tirana, Albania
	25.30	100		Vienna, Austria
	25.30	100	LLJ	R. Norway, Norway
	25.30	240		Gorki, USSR
	25.30	20		SABC, South Africa
	25.30	25		Ulan Bator, Mongalia
	25.30	20/240		R. Peking, China
	25.30	50	BED45	Taipei (BCC), Taiwan
11865	25.28	250		Schwarzenburg, Switz.
	25.28	10/100	VUD	AIR Delhi, India
	25.28	250		Delano (UN), USA
	25.28	200		Dixon (VOA), USA
	25.28	7.5	PRA8	R. Clube Pernambuco, Br.
11866	25.28	100		R.Lubumbashi,CongoD.R.
11870r	25.27	120		R. Tirana, Albania
	25.27	100		R. Liberty, Spain
	25.27	240		Kaunas, USSR
	25.27	50		Khabarovsk, USSR
	25.27	100	VUB	AIR Bombay, India
11875	25.26	100		Vienna, Austria
	25.26	50/60/100		R. Roma, Italy
	25.26	50/100		R. Nacional, Portugal
	25.26	10		R. Angola, Angola
	25.56	100	ETLF	Addis Ababa, Ethiopia
	25.26	4		R. Niger, Niger
	25.26	250		RSA, South Africa
	25.26	10/100	VUD	AIR Delhi, India
	25.26	100		R. Japan, Japan
	25.26	50	DZU6	SEARV, Philippines
	25.26	250		Tinang (VOA), Phil.
	25.26	100	YNN	R.Dif.Nacional Nicaragua
	25.26	10	ZYN32	R. Soc. da Bahia, Brazil
11880	25.25	250		BBC London, Gt. Britain
	25.25	240		Armavir, USSR
	25.25	240		Moscow, USSR
	25.25	250		BBC Ascension Island
	25.25	20/250		Monrovia (VOA), Liberia
	25.25	50		R. Australia, Australia
	25.25	10	VLH11	Melbourne, Australia
	25.25	5	XERH	R. Dif. Comerciales, Mex.
	25.25	1	LRS	R. Splendid, Argentina
11885	25.24	50		R. Free Europe, Portugal
	25.24	100		Cairo, Egypt
	25.24	100		SABC, South Africa
	25.24	10/100	VUD	AIR Delhi, India
	25.24	10/50		Karachi, Pakistan
	25.24	10	ZYZ25	R. Mauá, Brazil
	25.24	10	CXA68	R. Sarandi, Uruguay
11890	25.23	250		BBC London, Gt. Britain
	25.23	240		Erevan, USSR

kHz	m	kW	Call	Stations & Countries
11890	25.23	100		Cairo, Egypt
	25.23	100	ETLF	Addis Ababa, Ethiopia
	25.23	50	DZE9	Call of the Orient, Phil.
	25.23	140		Bethany (VOA), USA
	25.23	500		Greenville(VOA/UN),USA
11895	25.22	10		Munich (VOA), Germany
	25.22	50/250		R. Free Europe, Portugal
	25.22	100		Dakar, Senegal
	25.22	100	VUB	AIR Bombay, India
	25.22	10/100	VUD	AIR Delhi, India
	25.22	50/250		Tinang (VOA), Phil.
11900	25.21	100		R. Berlin Int, Germany
	25.21	50		Sverdlovsk, USSR
	25.21	250		RSA, South Africa
	25.21	100		Sfax, Tunisia
	25.21	20/240		R. Peking, China
	25.21	100		Kuala Lumpur, Malaysia
	25.21	50		Greenville (UN), USA
	25.21	5	CE1190	La Voz de Chile, Chile
	25.21	20	CXA10	S.O.D.R.E., Uruguay
11905	25.20	100		BBC Limassol, Cyprus
	25.20	100		Deutsche Welle, Germany
	25.20	60/100		R. Roma, Italy
	25.20	100		Irkutsk, USSR
	25.20	250		Kigali (DW), Rwanda
	25.20	3	BED44	Minhsiung (BCC), Taiwan
	25.20	50		R. Canada, Canada
	25.20	50		Greenville (VOA), USA
11910	25.19	100		BBC Limassol, Cyprus
	25.19	30		Nicosia, Cyprus
	25.19	100		R. Nederland, Holland
	25.19	15/100		R. Budapest, Hungary
	25.10	100		Irkustsk, USSR
	25.19	100	ETLF	Addis Ababa, Ethiopia
	25.19	10/100	VUD	AIR Delhi, India
	25.19	100	HSK9	R. Thailand, Thailand
11915	25.18	50/100		R. Nacional, Portugal
	25.18	50		Orenburg, USSR
	25.18	50/100		Cairo, Egypt
	25.18	20/250		Monrovia (VOA), Liberia
	25.18	35/100		Tanger (VOA), Morocco
	25.18	20		Damascus, Syria
	25.18	250		Greenville (VOA), USA
	25.18	140		Bethany (VOA), USA
	25.18	7.5	PRC23	R. TV Gaucha, Brazil
	25.18	100	HCJB	La Voz de los Andes, Ec.
11920	25.17	50/500		R. Tirana, Albania
	25.17	100		Allouis, France
	25.17	100		R. Abidjan, Ivory Coast
	25.17	120/240		R. Peking, China
	25.17	10/100	VUD	AIR Delhi, India
	25.17	10/250		R. Kuwait, Kuwait
	25.17	50	DZF2	Call of the Orient, Phil.
	25.17	50		Tinang (VOA), Phil.
	25.17	100		R. Australia, Australia
11925	25.16	100		Vienna, Austria
	25.16	100		Deutsche Welle, Germany
	25.16	100		BBC London, Gt. Britain
	25.16	10		Emis. Nacional, Portugal
	25.16	50		Tashkent, USSR
	25.16	50		Tbilisi, USSR
	25.16	20/240		R. Peking, China
	25.16	10/100	VUD	AIR Delhi, India
	25.16	10	ZYR78	R. Bandeirantes, Brazil
11930	25.15	100		Allouis, France
	25.15	50/100		R. Nacional, Portugal
	25.15	100		Moscow, USSR
	25.15	50		R. Brazzaville, Congo
	25.15	50/250		Tinang (VOA), Phil.
	25.15	50		R. Habana, Cuba
11935	25.14	20/50		R. Liberty, Germany
	25.14	50/100		R. Nacional, Portugal
	25.14	25	ZYS35	R. Cl. Paranaense, Brazil
11940	25.13	15/120		R. Bucharest, Rumania
	25.13	240		Krasnoyarsk, USSR
	25.13	100		Cairo, Egypt
	25.13	7.5		R. Angkatan Udara, Ind.
	25.13	100		R. Japan, Japan
	25.13	10/250		R. Kuwait, Kuwait
	25.13	50		R. Singapore, Singapore
	25.13	35	BED90	Taipei (BCC), Taiwan
11945	25.12	100		Deutsche Welle, Germany
	25.12	75/100		BBC London, Gt. Britain
	25.12	50		Sverdlovsk, USSR
	25.12	240		R. Peking, China
	25.12	50		R. Canada, Canada
	25.12	3	ZPA5	R. Encarnación, Paraguay
11950	25.10	240		Kharkow, USSR
	25.10	50		R. St. ELWA, Liberia
	25.10	20/240		R. Peking, China
	25.10	100		R. Japan, Japan

kHz	m	kW	Call	Stations & Countries
11950	25.10	50		Philippine Bc. Sce, Phil.
	25.10	50		Riyadh, Saudi Arabia
	25.10	25		Saigon, Vietnam
	25.10	10	PRL3	R. Min. Educação, Brazil
11955	25.09	100		BBC Limassol, Cyprus
	25.09	100		BBC London, Gt. Britain
	25.09	15		Warsaw, Poland
	25.09	100		Minsk, USSR
	25.09	120		Serpukhov, USSR
	25.09	100		Cairo, Egypt
	25.09	75		BBC Tebrau, Malaysia
	25.09	500		Greenville (VOA), USA
	25.09	300		R. Nederland, Bonaire
11960	25.08	100		Praha, Czechoslovakia
	25.08	240		Serpukhov, USSR
	25.08	35		Tanger (VOA), Morocco
	25.08	10/100	VUD	AIR Delhi, India
	25.08	100		R. Japan, Japan
	25.08	100		Beyrouth, Lebanon
	25.08	250		Darwin, Australia
	25.08	5	CE1196	R. Nac. de Mineria, Chile
11965	25.07	100		Allouis, France
	25.07	100		Deutsche Welle, Germany
	25.07	50/100		R. Roma, Italy
	25.07	100		Omsk, USSR
	25.07	200		Kazan, USSR
	25.07	250		Kigali (DW), Rwanda
	25.07	20/240		R. Peking, China
	25.07	50/250		Tinang (VOA), Phil.
	25.07	7.5	PRB24	R. Record, Brazil
11970	25.06	50		R. Sofia, Bulgaria
	25.06	100		BBC Limassol, Cyprus
	25.06	50		R. Liberty, Germany
	25.06	100		BBC London, Gt. Britain
	25.06	4		R. Brazzaville, Congo
	25.06	50		Monrovia (VOA), Liberia
	25.06	3	BED37	Minhsiung (BCC), Taiwan
	25.06	5/100		R. Nepal, Nepal
	25.06	5		Grenada, Windward Isl.
			11975-15100kHz	
11975	25.05	100		Moscow, USSR
	25.05	50		R. St. ELWA, Liberia
	25.05	20/240		R. Peking, China
11980	25.04	50/100		Cairo, Egypt
	25.04	120/240		R. Peking, China
11985	25.03	100		R. Moscow, USSR
11990	25.02	100		Praha, Czechoslovakia
	25.02	50		Dushanbé, USSR
	25.02	100		Kiev, USSR
11995	25.01	100		R. Moscow, USSR
12000	25.00	100		Armavir, USSR
†	25.00	10	VNG	Lyndhurst, Australia
‡2005	24.99	50/100		Cairo, Egypt
12010	24.98	20		Novosibirsk, USSR
	24.98	100		Kiev, USSR
	24.98	120/240		R. Peking, China
‡2015	24.97	50		Khabarovsk, USSR
	24.97	20/240		R. Peking, China
12030	24.94	100		Kiev, USSR
	24.94	100		Vilnius, USSR
	24.94	20		Novosibirsk, USSR
12040	24.92	75		BBC London, Gt. Britain
	24.92	100		R. Moscow, USSR
	24.92	50		Khabarovsk, USSR
12045	24.91	100		R. Moscow, USSR
12055	24.89	100		R. Moscow, USSR
	24.89	120/240		R. Peking, China
12060	24.88	50		Moscow, USSR
12065	24.87	20/240		R. Peking, China
12070	24.86	100		Kiev, USSR
12080	24.83	20/240		R. Peking, China
12095	24.80	75		BBC London, Gt. Britain
12110	24.77	120/240		R. Peking, China
12120	25.75	20/240		R. Peking, China
†12135	24.72		NSS	Annapolis, USA
12170	24.65	100		R. Moscow, USSR
12240	24.51	50		Magadan, USSR
†12307	24.38		OBC	Callao, Peru
†12763	23.50	15	DAM	Elmshorn, Germany
12850	23.36	100		R. Moscow, USSR
†12960	23.16		CCV	Valparaiso, Chile
†12966	23.14		NPG	San Francisco, USA
†13105	22.89		PPR	Rio de Janeiro, Brazil
†13530	22.17		NPN	Guam
†13655	21.97		NPM	Honolulu, Hawaii
13700	21.90	20/240		R. Peking, China
13845	21.68	20/240		R. Peking, China
†13873	21.62	6	FTN87	Pontoise, France
14460	20.75	20		Deregawa(VUNC),Ryuk.I.
14860	20.27	100		R. Moscow, USSR
†15000	20.00	0.5	MSF	Teddington, Gt. Britain

kHz	m	kW	Call	Stations & Countries
*15000	20.00	20	RWM	Moscow, USSR
*	20.00		BPV	Peking, China
*	20.00	2	JJY	Tokyo, Japan
*	20.00	2	WWVH	Puunene, Hawaii
*	20.00	10	WWV	Fort Collins, USA
*	20.00	2	LOL	Buenos Aires, Agentina
	20.00	120/240		R. Peking, China
15018	19.97			Hanoi Viet (Dem. Rep.)
15030	19.96	120/240		R. Peking, China
15050	19.93	50/100		R. Nacional, Portugal
15055	19.93	50/100		Cairo, Egypt
15060	19.92	240		R. Peking, China
15070	19.91	75/100		BBC London, Gt. Britain
15080	19.89	100	VUB	AIR Bombay, India
	19.89	10/100	VUD	AIR Delhi, India
	19.89	20/240		R. Peking, China
15090	19.88	100		Cairo, Egypt
15095	19.87	240		R. Peking, China
			15100-15450kHz	**(19 metre band)**
15100	19.87	50/100		R. Nacional, Portugal
	19.87	100		Krasnoyarsk, USSR
	19.87	10/50		Karachi, Pakistan
15105	19.86	75		BBC London, Gt. Britain
	19.86	250		BBC, Ascension Island
	19.86	10/100	VUD	AIR Delhi, India
	19.86	100		R. Japan, Japan
	19.86	100		R. Australia, Australia
	19.86	7.5	ZYZ32	R. Rural Brasileira, Br.
15110	19.85	100		Kiev, USSR
	19.85	50/250		Tinang (VOA), Phil.
	19.85	7.5	ZL21	Wellington, New Zealand
	19.85	5		Grenada, Winward Isl.
	19.85	5	XERR	R. Dif. Comerciales, Mex.
	19.85	100	HCJB	La Voz de los Andes, Ec.
15115	19.85	250		R. Free Europe, Portugal
	19.85	100		Cairo, Egypt
	19.85	50		Jeddah, Saudi Arabia
	19.85	7.5		R. Soc. Guiracá, Brazil
	19.85	100	HCJB	La Voz de los Andes, Ec.
15120	19.84	100		Allouis, France
	19.84	100		Kiev, USSR
	19.84	100		Vatican Radio
	19.84	100		Lagos (NBC), Nigeria
	19.84	35		Colombo, Ceylon
15125	19.83	100	CSA64	R. Nacional, Portugal
	19.83	250		Schwarzenburg, Switz.
	19.83	50	VUD	AIR Delhi, India
	19.83	100	BED60	Taipei (BCC), Taiwan
	19.83	50		R. Liberty, Taiwan
	19.83	10	ZYN32	R. Soc. da Bahia, Brazil
15130	19.83	250		R. Liberty, Spain
	19.83	240		Simferopol, USSR
	19.83	100		Serpukhov, USSR
	19.83	100	VUB	AIR Bombay, India
15130	19.83	50		Suwon (KBS), S. Korea
	19.83	250		Darwin, Australia
	19.83	100	WNYW	R. New York, USA
15135	19.82	100		Allouis, France
	19.82	100		Cairo, Egypt
	19.82	10/100	VUD	AIR Delhi, India
	19.82	100		R. Iran, Iran
	19.82	100		R. Japan, Japan
	19.82	35/100		Poro (VOA), Phil.
	19.82	10	PRB23	R. Panamericana, Brazil
15140	19.82	75/250		BBC London, Gt. Britain
	19.82	240		Petropavlovsk, USSR
	19.82	240		Riazan, USSR
	19.82	10/100	VUD	AIR Delhi, India
	19.82	10		R. Australia, Australia
15145	19.81	100		Vienna, Austria
	19.81	100		R. Berlin Int, Germany
	19.81	100		R. Free Europe, Portugal
	19.81	10/100	VUD	AIR Delhi, India
	19.81	10	ZYK33	R.Jornal do Comércio,Br.
15150	19.80	50		Omsk, USSR
	19.80	240		Minsk, USSR
	19.80	100		Cairo, Egypt
	19.80	100	ETLF	Addis Ababa, Ethiopia
	19.80	20/240		R. Peking, China
	19.80	7.5	YDC	Djakarta, Indonesia
	19.80	250		R. Kuwait, Kuwait
	19.80	50		Jeddah, Saudi Arabia
	19.80	1	CE1515	R. Corporación, Chile
15155	19.80	50/100		Allouis, France
	19.80	100		Hörby, Sweden
	19.80	50		R. St. ELWA, Liberia
	19.80	50	HLK41	Suwon, Korea
	19.80	100		Poro (VOA), Phil.
	19.80	50		R. Habana, Cuba
	19.80	25	ZYB9	R. Dif. de São Paulo, Br.
15160	19.79	100		Allouis, France

kHz	m	kW	Call	Stations & Countries
15160	19.79	50		Rhodes (VOA), Greece
	19.79	15/100		R. Budapest, Hungary
	19.79	50		Moscow, USSR
	19.79	10/100	VUD	AIR Delhi, India
	19.79	100	TAU	R. Ankara, Turkey
	19.79	10		R. Australia, Australia
	19.79	140		Bethany (VOA/UN), USA
	19.79	10	XEWS	Voz America Latina, Mex.
15165	19.78	50	OZF7	R. Denmark, Denmark
	19.78	10/100	VUD	AIR Delhi, India
	19.78	50/250		Tinang (VOA), Phil.
	19.78	3		FEBC, Seychelles
	19.78	50		Damascus, Syria
	19.78	5	ZYN7	Ceará R. Clube, Brazil
15170	19.78	10		R. Free Europe, Portugal
	19.78	50		Krasnoyarsk, USSR
	19.78	50		Blagovechensk, USSR
	19.78	100	ETLF	Addis Ababa, Ethiopia
	19.78	10/100	VUD	AIR Delhi, India
	19.78	100		R. Veritas, Phil.
	19.78	100		R. Australia, Australia
	19.78	5	TGWC	La Voz de Guatemala
15175	19.77	100	LLM	R. Norway, Norway
	19.77	100		Lvov, USSR
	19.77	100		Cairo, Egypt
	19.77	250		RSA, South Africa
	19.77	50/250		Tinang (VOA), Phil.
15180	19.76	75		BBC London, Gt. Britain
	19.76	100		R. Nederland, Holland
	19.76	50		Sverdlovsk, USSR
	19.76	50		Moscow, USSR
	19.76	100		Petropavlovsk, USSR
	19.76	250		BBC, Ascension Island
	19.76	5		Grenada, Windward Isl.
	19.76	10	ZYN30	R. Cultura da Bahia, Br.
15185	19.76	100	OIX4	Pori, Finland
	19.76	100		Allouis, France
	19.76	50		Askhabad, USSR
	19.76	20/240		R. Peking, China
	19.76	10/100	VUD	AIR Delhi, India
	19.76	35/100		Poro (VOA), Phil.
15190	19.75	100		Deutsche Welle, Germany
	19.75	100		Ivanofrankovsk, USSR
	19.75	50		R. Brazzaville, Congo
	19.75	10/100	VUD	AIR Delhi, India
	19.75	50		R. Canada, Canada
	19.75	5	PRK9	R. Inconfidencia, Brazil
15195	19.74	250		Woofferton (VOA), G.B.
	19.74	100		BBC London, Gt. Britain
	19.74	100		R. Nacional, Spain
	19.74	50		Blagoveschensk, USSR
	19.74	100		Cairo, Egypt
	19.74	35/100		Tanger (VOA), Morocco
	19.74	100		R. Japan, Japan
	19.74	50		Greenville (VOA), USA
	19.74	100		R. Hubana, Cuba
15200	19.74	100		Vienna, Austria
	19.74	250		BBC London, Gt. Britain
	19.74	50		Kalatch, USSR
	19.74	50		Alger, Algeria
	19.74	20/240		R. Peking, China
15205	19.73	250		Woofferton (VOA), G.B.
	19.73	100		Tanger (VOA), Morocco
	19.73	10/100	VUD	AIR Delhi, India
	19.73	250/500		Greenville (VOA), USA
15210	19.72	100		Vienna, Austria
	19.72	100		Moscow, USSR
	19.72	100		Vatican Radio
	19.72	100		Poro (VOA), Phil.
	19.72	50/250		Tinang (VOA), Phil.
	19.72	3	ZPÁ7	R. Guarani, Paraguay
15215	19.71	100		R. Free Europe, Portugal
	19.71	100		Sfax, Tunisia
15220	19.71	100		R. Nederland, Holland
	19.71	50		Krasnoyarsk, USSR
	19.71	240		Riga, USSA
	19.71	250		RSA, South Africa
	19.71	100		R. Australia, Australia
	19.71	10	VLG	Melbourne, Australia
	19.71	300		R. Nederland, Bonaire
15225	19.71	50		R. Liberty, Germany
	19.71	50		Tinang (UN), Phil.
	19.71	500		Greenville (VOA), USA
	19.71	10	ZYN36	R. Cult. da Bahia, Brazil
15230	19.70	240		Voronesh, USSR
	19.70	100		Krasnoyarsk, USSR
	19.70	20/240		R. Peking, China
	19.70	35		Colombo, Ceylon
	19.70	10	VLH15	Melbourne, Australia
	19.70	50		R. Habana, Cuba
	19.70	25		La Voz de Melo, Urugauy
15235	19.69	100		BBC Limassol, Cyprus
	19.69	75		BBC London, Gt. Britain
	19.69	250		BBC, Ascension Island
	19.69	35/100		Tanger (VOA), Morocco
	19.69	10/100	VUD	AIR Delhi, India
	19.69	100		R. Japan, Japan
	19.69	10/50		Karachi, Pakistan
	19.69	250/500		Greenville (VOA), USA
15240	19.69	50		R. Berlin Int., Germany
	19.69	100		Baku, USSR
	19.69	100		Irkutsk, USSR
	19.69	100		R. Belgrade, Yugoslavia
	19.69	10/50		R. Australia, Australia
	19.69	250	KGEI	Belmont, USA
15245	19.68	100		Allouis, France
	19.68	100		Deutsche Welle, Germany
	19.68	100		Leningrad, USSR
	19.68	100		Kinshasa, Congo
	19.68	250		Greenville (VOA), USA
	19.68	250	KGEI	Belmont, USA
	19.68	10	ZYE21	R. Marajoara, Brazil
15250	19.67	15/120		R. Bucharest, Roumania
	19.67	ETLF		Addis Ababa, Ethiopia
	19.67	50		Poro (AFRTS), Phil.
	19.67	250		Greenville(VOA/UN),USA
15255	19.66	25		R. Free Europe, Portugal
	19.66	100		Vatican Radio
	19.66	20/240		R. Peking, China
	r19.66	50		Phnom-Penh, Cambodia
	19.66	50/260		Trans WorldRadio,Bonaire
	19.66	100	HCJB	La Voz de los Endes, Ec.
15260	19.66	30		Nicosia (CBC), Cyprus
	19.66	100/250		BBC London, Gt. Britain
	19.66	100		Kiev, USSR
	19.66	250		BBC, Ascension Island
	19.66	100		Cairo, Egypt
	19.66	1		Tokyo (FEN), Japan
15265	19.66	100		Gorki, USSR
	19.66	100		Nikolaevsk, USSR
	19.66	50		Kenga, USSR
	19.66	100		Armavir, USSR
	19.66	50		Kabul, Afghanistan
	19.66	50	PRG9	R. Excelsior, Brazil
15270	19.65	100	ETLF	Addis Ababa, Ethiopia
	19.65	100		Tanger (VOA), Morocco
	19.65	20/240		R. Peking, China
	19.65	50/500		Greenville (VOA), USA
	19.65	50		R. Habana, Cuba
	19.65	0.5	CXA74	S.O.D.R.E., Uruguay
15275	19.64	100		Deutsche Welle, Germany
	19.64	100		Warsaw, Poland
	19.64	50		Omsk, USSR
	19.64	10/100	VUD	AIR Delhi, India
15280	19.63	20/240		R. Peking, China
	19.63	3	BED36	Minhsiung (BCC), Taiwan
	19.63	100		Kuala Lumpur, Malaysia
	19.63	50		Riyadh, Saudi Arabia
	19.63	7.5	ZL4	R. New Zealand, N.Z.
	19.63	500		Greenville (VOA), USA
	19.63	100	WNYW	R. New York, USA
	19.63	0.1	4VWI	R. St. 4VEH, Haiti
15285	19.63	100		Praha, Czechoslovakia
	19.63	50		R. Berlin Int, Germany
	19.63	75/100		BBC London, Gt. Britain
	19.63	15/120		R. Bucharest, Rumania
	19,63	100		Vatican Radio
	19.63	50		Irkutsk, USSR
	19.63	250		Ejura, Ghana
	19.63	35		Colombo (VOA), Ceylon
15290	19.62	50		R. Liberty, Germany
	19.62	20/240		R. Peking, China
	19.62	10/100	VUD	AIR Delhi, India
	19.62	50/250		Tinang (VOA), Phil.
	19.62	20		Damascus, Syria
	19.62	5	LRU	R. El Mundo, Argentina
15295	19.62	100		Allouis, France
	19.62	240		Voronej, USSR
	19.62	25		R. Clube de Moçambique
	19.62	50		Trans WorldRadio,Bonaire
15300	19.61	75		BBC London, Gt. Britain
	19.61	100		R. Japan, Japan
	19.61	10/50	DZH9	Call of the Orient, Phil.
	19.61	100		R. Habana, Cuba
	19,61	100	HCJB	La Voz de los Andes, Ec.
15305	19.60	250		Schwarzenburg, Switz.
	19.60	50		Erevan, USSR
	19.60	100		Voronej, USSR
	19.60	50		Trans World R, Bonaire
15310	19.60	100		R. Sofia, Bulgaria
	19.60	100		Praha, Czechoslovakia
	19.60	75		BBC London, Gt. Britain

kHz	m	kW	Call	Stations & Countries
15310	19.60	50		Conakry, Guinea
	19.60	20/250		Monrovia (VOA), Liberia
	19.60	100		Tanger (VOA), Morocco
	19.60	20/240		R. Peking, China
	19.60	10/100	VUD	AIR Delhi, India
	19.60	7.5		BBC Tebrau, Malaysia
15315	19.59	50/100		R. Nacional, Portugal
	19.59	100		Hörby, Sweden
	19.59	50		Krasnoyarsk, USSR
	19.59	100		Cairo, Egypt
	19.59	100	ETLF	Addis Ababa, Ethiopia
15320	19.58	100		Deutsche Welle, Germany
	19.58	100		Kazan, USSR
	19.58	250		Monrovia (VOA), Liberia
	19.58	3	BED38	Minhsiung (BCC), Taiwan
	19.58	100		R. Australia, Australia
	19.58	50		R. Canada, Canada
	19.58	300		R. Nederland, Neth. Ant.
15325	19.58	20/240		R. Peking, China
	19.58	50		Karachi, Pakistan
	19.58	50		R. Canada, Canada
	19.58	5	ZYR228	R. Gazeta, Brazil
	19.58	100	HCJB	La Voz de los Andes, Ec.
15330	19.57	100		Sverdlovsk, USSR
	19.57	100		Lagos (NBC), Nigeria
	19.57	100		Honolulu (VOA), Hawaii
	19.57	140/250		Bethany (AFRTS), USA
15335	19.56	20	ORU5	Wavre, Belgium
	19.56	10/100	VUD	AIR Delhi, India
	19.56	100	VUM	AIR Madras, India
	19.56	50		Karachi, Pakistan
	19.56	7.5	ZYU68	R. Farroupilha, Brazil
	19.56	50	HJZP	R. Nacional, Colombia
15340	19.56	50		R. Liberty, Germany
	19.56	100		R. Roma, Italy
	19.56	50/100		R. Nacional, Portugal
	19.56	100		Cairo, Egypt
	19.56	10/100	VUD	AIR Delhi, India
15345	19.55	100		Allouis, France
	19.55	7.5/5		Athens, Greece
	19.55	50		Sebaa Aioun, Morocco
	19.55	10/250		R. Kuwait, Kuwait
	19.55	50/250		Tinang (VOA), Phil
	19.55	25	BED49	Taipei (BCC), Taiwan
	19.55	50/260		TransWorldRadio,Bonaire
	19.55	100	LRA33	R. Nacional, Argentina
15350	19.54	6		R. Luxembourg, Lux.
	19.54	100		Vologda, USSR
	19.54	100	ETLF	Addis Ababa, Ethiopia
	19.54	250		RSA, South Africa
15355	19.53	250		R. Free Europe, Portugal
	19.53	100		Islamabad, Pakistan
	19.53	250		Darwin, Australia
	19.53	20/240		R. Peking, China
15360	19.53	240		Moscow, USSR
	19.53	50		R. Nac. España, Can. Is.
	19.53	250		Monrovia (VOA), Liberia
	r19.53	50		Tanger (RTM), Morocco
	19.53	50		Karachi, Pakistan
15365	19.52	50		R. Nac. España, Can. Isl.
	19.52	100		Lagos, Nigeria
	19.52	100		SABC, South Africa
	19.52	50/250		Tinang (VOA), Phil.
	19.52	15/35		Poro (VOA), Phil.
15370	19.52	100/250/500		R. Liberty, Spain
	19.52	100	ETLF	Addis Abbaba, Ethiopia
	19.52	100	BED93	Taipei (BCC), Taiwan
	19.52	250		Greenville (UN), USA
	19.52	10	ZYC9	R. Tamoio, Brazil
15375	19.51	100		Leningrad, USSR
	19.51	100		Komsomolsk, USSR
15380	19.50	100		Deutsche Welle, Germany
	19.50	50		R. Liberty, Germany
	19.50	50/100		R. Nacional, Portugal
	19.50	15/120		R. Bucharest, Rumania
	19.50	100		Cairo, Egypt
	19.50	50		Tanger, Morocco
	19.50	250		Kigali (DW), Rwanda
	19.50	20/240		R. Peking, China
	19.50	100		Islamabad, Pakistan
15385	19.50	240		Gorki, USSR
	19.50	100		Tunis, Tunisia
	19.50	50	DZF3	Call of the Orient, Phil.
	19.50	10	CXA60	R. Sarandí, Uruguay
15390	19.49	100		R. Berlin Int, Germany
	19.49	75		BBC London, Gt, Britain
	19.49	50		FEBC Manila, Phil.
15395	19.49	120		Tashkent, USSR
	19.49	100		SABC, South Africa
	19.49	50/250		Tinang (VOA), Phil
	19.49	50/250		Greenville (VOA), USA

kHz	m	kW	Call	Stations & Countries
15395	19.49	200		Dixon (VOA), USA
15400	19.48	100		R. Roma, Italy
	19.48	50		Irkutsk, USSR
	19.48	250		BBC, Ascension Island
	19.48	100	ETLF	Addis Ababa, Ethiopia
	19.48	50		Baghdad, Iraq
	19.48	500		Greenville (VOA), USA
15405	19.47	100		Sverdlovsk, USSR
	19.47	20/240		R. Peking, China
15410r	19.47	120		R. Tirana, Albania
	19.47	100	OEI66	Vienna, Austria
	19.47	100		Deutsche Welle, Germany
	19.47	10		Tanger (RTM), Morocco
	19.47	250		Kigali (DW), Rwanda
	19.47	50/250		Tinang (VOA), Phil
	19.47	100		Delano (AFRTS), USA
	19.47	50/250		Greenville (VOA/UN),USA
15415	19.46	100		Frunze, USSR
	19.46	100		Kiev, USSR
	19.46	100	ETLF	Addis Ababa, Ethiopia
	19.46	100		Kabul, Afghanistan
	19.46	10/50		Karachi, Pakistan
	19.46	50/250		Greenville(VOA/UN),USA
	19.46	7.5	ZYR206	R. Cl. Ribeirão, Preto, Br.
	19.46	100	HCJB	La Voz de los Andes, Ec.
15420	19.46	100		BBC Limassol, Cyprus
	19.46	100		R. Nacional, Spain
	19.46	50	DZH7	SEARV, Philippines
15425	19.45	100		R. Nederland, Holland
	19.45	240		Moscow, USSR
	19.45	100	ETLF	Addis Ababa, Ethiopia
	19.45	50	VLW15	Perth, Australia
15430	19.44	10/100	VUD	AIR Delhi, India
	19.44	50	HLK41	Suwon, Korea
	19.44	50/250		Greenville (AFRTS), USA
15435	19.44	75/250		BBC London, Gt. Britain
	19.44	100		Deutsche Welle, Germany
	19.44	250		Kigali (DW), Rwanda
	19.44	50		Dar es Salaam, Tanzania
	19.44	20/240		R. Peking, China
	19.44	7.5		BBC Tebrau, Malaysia
	19.44	100	WNYW	R. New York, USA
15440	19.43	120		Riazan, USSR
	19.43	3/50	DZF8	Call of the Orient, Phil.
	19.43	100	WNYW	R. New York, USA
15445	19.43	100		Praha, Czechoslovakia
	19.43	250		R. Liberty, Spain
	19.43	50		R. Brazzaville, Congo
	19.43	250		Monrovia (VOA), Liberia
	19.43	100		R. Japan, Japan
	19.43	10	ZYN32	R. Nac. Brasilia, Brazil
15450	19.42	100		R. Berlin Int., Germany
	19.42	100		Moscow, USSR
				15450-17700kHz
15455	19.42	7.5		Dacca, Pakistan
15460	19.40	100		Moscow, USSR
15470	19.39	50		Kalinin, USSR
15475	19.38	50/100		Cairo, Egypt
15480	19.38	50		Irkutsk, USSR
	19.38	100		Moscow, USSR
15490	19.36	50		Orenburg, USSR
15500	19.35	20/240		R. Peking, China
15505	19.35	50		Sverdlovsk, USSR
15520	19.33	20/240		R. Peking, China
	19.33	120/240		Pyongyang, Korea (D.R.)
15550	19.33	20/240		R. Peking, China
15590	19.24	20/240		R. Peking, China
15600	19.23	20/240		R. Peking, China
15710	19.10	20/240		R. Peking, China
15720	19.08	50		Omdurman, Sudan
15780	19.01	100		Moscow, USSR
15789r	18.99	50		Omdurman, Sudan
15880	18.90	20/240		R. Peking, China
16105	18.64	20/240		R. Peking, China
†16180	18.54		NSS	Annapolis, USA
16250	18.46			Moscow, USSR
16320	18.38	120/240		Pyongyang, Korea (D.R.)
16435	18.27	20/240		R. Peking, China
†16457	18.23		NPM	Honolulu, Hawaii
†16980	17.67	15	DAM	Elmshorn, Germany
†17122	17.52		NPM	Honolulu, Hawaii
†17194	17.45		PPR	Rio de Janeiro, Brazi
17220	17.43	20/240		R. Peking, China
17280	17.36	20/240		R. Peking, China
†17288	17.35		NPG	San Francisco, USA
17540	17.19	20/240		R. Peking, China
17490	17.15	20/240		R. Peking, China
17505	17.13	20/240		R. Peking, China
†17530	17.11		NPN	Guam
17605	17.04	20/240		R. Peking, China
17640	17.01	100		Cairo, Egypt

kHz	m	kW	Call	Stations & Countries
17650	17.00	20/240		R. Peking, China
17655	16.99	100		Cairo, Egypt
17670	16.98	100		Cairo, Egypt
17673	16.98	20/240		R. Peking, China
17680	16.97	240		R. Peking, China
17690	16.96	100		Cairo, Egypt
17695	16.95	75/100		BBC London, Gt. Britain
†17697	16.95		NBA	Canal Zone, Panama
		17700-17900kHz		**(16 metre band)**
17700	16.95	100		Vilnius, USSR
	16.95	50		Tallinn, USSR
	16.95	120/240		R. Peking, China
17705	16.94	100		Munich (VOA), Germany
	16.94	100		Deutsche Welle, Germany
	16.94	250		BBC London, Gt. Britain
	16.94	250		Monrovia (VOA/UN),Lib.
	16.94	100	VUB	AIR Bombay, India
	16.94	10/100	VUD	AIR Delhi, India
	16.94	50		Greenville (VOA/UN),USA
	16.94	10	ZYR96	R.9 de Julho, Brazil
17710	16.94	100		Moscow, USSR
	16.94	50		Phnom-Penh, Cambodia
	16.94	500		Greenville (VOA), USA
17715	16.93	100		Vienna, Austria
	16.93	75/250		BBC London, Gt. Britain
	16.73	120/240		R. Peking, China
	16.93	10/100	VUD	AIR Dehi, India
	16.93	50	DZU8	SEARV, Philippines
	16.93	50		R. Australia, Australia
	16.93	250		Darwin, Australia
	16.93	100		R. Habana, Cuba
17720	16.93	100		Allouis, France
	16.93	100		Kazan, USSR
	16.93	50		R. Brazzaville, Congo
	16.93	20/240		R. Peking, China
	16.93	50		R. Liberty, Taiwan
	16.93	50	BED39	Taipei (BCC), Taiwan
	16.93	50/500		Greenville (VOA), Taiwan
	16.93	50	WINB	Red Lion, USA
17725	16.93	50		R. Free Europe, Portugal
	16.93	100		Cairo, Egypt
	16.93	100		R. Japan, Japan
	16.93	1	ZYR232	R. Universitaria, Brazil
17730	16.92	100		Allouis, France
	16.92	15/120		R. Bucharest, Rumania
	16.92	50		Irkutsk, USSR
	16.92	240		Serpukhov, USSR
	16.92	100		Tananarive, Mal. Rep.
	16.92	50/500		Greenville (VOA), USA
	16.93	300		R. Nederland, Bonaire
17735	16.92	10/50		R. Free Europe, Portugal
	16.92	240		Serpukhov, USSR
	16.92	20/240		R. Peking, China
	16.92	100		R. Iran, Iran
	16.92	50		Poro (VOA), Philippines
17740	16.91	75		BBC London, Gt. Britain
	16.91	50/100		R. Nacional, Portugal
	16.91	50		Novosibirsk, USSR
	16.91	250		BBC, Ascension Island
	16.91	10/100	VUD	AIR Delhi, India
	16.91	50/250		Tinang (VOA), Phil.
17745	16.91	5/7.5		Athens, Greece
	16.91	240		Kursk, USSR
	16.91	250		Greenville (VOA), USA
	16.91	50/250		Delano (VOA), USA
17750	16.90	500		R. Liberty, Spain
	16.90	100	ETLF	Addis Ababa, Ethiopia
	16.90	100		Lagos (NBC), Nigeria
	16.90	50		R. Kuwait, Kuwait
	16.90	50/250		Tinang (VOA), Phil.
	16.90	50		R. Habana, Cuba
17755	16.90	100		R. Berlin Int., Germany
	16.90	120		Gorkij, USSR
	16.90	50		Krasnoyarsk, USSR
	16.90	3		FEBC, Seychelles
17760	16.89	50		R. Liberty, Germany
	16.89	15/120		Bucharest, Roumania
	16.89	100		Cairo, Egypt
	16.89	100	WNYW	R. New York, USA
17765	16.89	100		Allouis, France
	16.89	100		Deutsche Welle, Germany
	16.89	100		Tula, USSR
	16.89	250		Kigali (DW), Rwanda
	16.89	250		Tinang (VOA), Phil.
	16.89	250		Honolulu (VOA), Hawaii
	16.89	100		Delano (AFRTS), USA
17770	16.88	60/100		R. Roma, Italy
	16.88	50		R. Free Europe, Portugal
	16.88	100	ETLF	Addis Ababa, Ethiopia
	16.88	50		Karachi, Pakistan
17775	16.88	250		Monrovia (VOA), Liberia
17775	16.88	240		Khabarovsk, USSR
	16.88	240		Riazan, USSR
	16.88	100		R. Australia, Australia
17780	16.87	100		Vienna, Austria
	16.87	75/100		BBC London, Gt. Britain
	16.87	120		Lvov, USSR
	16.87	10/100	VUD	AIR Delhi, India
	16.87	20/240		R. Peking, China
	16.87	50		R. Liberty, Taiwan
	16.87	50	BED95	Taipei (BCC), Taiwan
	16.87	100	HCJB	Voz de los Andes, Ec.
17785	16.87	50		Frunze, USSR
	16.87	100		Cairo, Egypt
	16.87	100		R. Japan, Japan
	16.87	250		Bethany (UN), USA
17790	16.86	100/250		BBC London, Gt. Britain
	16.86	50		Krasnoyarsk, USSR
17795	16.86	3/15		R. Budapest, Hungary
	16.86	100		R. Roma, Italy
	16.86	100	LLJ9	R. Norway, Norway
	16.86	250		Schwarzenburg, Switz.
	16.86	100		Serpukhov, USSR
	16.86	250		RSA, South Africa
	16.86	20/240		R. Peking, China
	16.86	20/240		R. Dif. Amazonas, Brazil
17800	16.85	50		R. Sofia, Bulgaria
	16.85	100		Deutsche Welle, Germany
	16.85	75/100		BBC London, Gt. Britain
	16.85	100		Vatican Radio
	16.85	35/100		Tanger (VOA), Morocco
	16.85	250		Kigali (DW), Rwanda
	16.85	10/100	VUD	AIR Delhi, India
	16.85	50		Karachi, Pakistan
	16.85	140		Bethany (VOA), USA
17805	16.85	50		R. Free Europe, Portugal
	16.85	100		Irkutsk, USSR
	16.85	120		Tbilisi, USSR
	16.85	100		Tallinn, USSR
	16.85	100		Cairo, Egypt
	16.85	250		RSA, South Africa
17810	16.84	75/100		BBC London, Gt. Britain
	16.84	100		R. Nederland, Holland
	16.84	20/240		R. Peking, China
	16.84	2/50	DZ16	Call of the Orient, Phil.
	16.84	300		R. Nederland, Neth. Ant.
17815	16.84	100		R. Roma, Italy
	16.84	240		Simferopol, USSR
	16.84	100		Cairo, Egypt
	16.84	100	ETLF	Addis Ababa, Ethiopia
	16.84	100		Tanger (VOA), Morocco
	16.84	250		RSA, South Africa
	16.84	35		Colombo, Ceylon
	16.84	10	ZYR58	R. Cult, de São Paulo, Br.
17820	16.84	75		BBC London, Gt. Britain
	16.84	200		Kiev, USSR
	16.84	50		Tashkent, USSR
	16.84	10/100	VUD	AIR Delhi, India
	16.84	100	TAV	R. Ankara, Turkey
	16.84	100		R. Australia, Australia
	16.84	50		R. Canada, Canada
	16.84	50		Dixon (VOA), USA
17825	16.83	50		R. Sofia, Bulgaria
	16.83	100	LLN	R. Norway, Norway
	16.83	50		Frunze, USSR
	16.83	250		RSA, South Africa
	16.83	100		R. Japan, Japan
	16.83	50		Tinang (VOA), Phil.
17830	16.83	100		R. Berlin Int, Germany
	16.83	15/120		R. Bucharest, Roumania
	16.83	250		Schwarzenburg, Switzerland
	16.83	100		Moscow, USSR
	16.83	250		Monrovia (VOA), Liberia
	16.83	35		Colombo, Ceylon
	16.83	10/100	VUD	AIR Delhi, India
	16.83	250		Tinang (VOA), Phil.
	16.83	35/50		Poro (VOA/UN), Phil.
	16.83	500		Greenville (VOA), USA
17835	16.82	100		R. Free Europe, Portugal
	16.82	50/100		R. Nacional, Portugal
	16.82	240		Moscow, USSR
	16.82	100	ETLF	Addis Ababa, Ethiopia
	16.82	20/240		R. Peking, China
17840	16.82	100		Praha, Czechoslovakia
	16.82	100		Hörby, Sweden
	16.82	100		Frunze, USSR
	16.82	100		Vatican Radio
	16.82	10/100	VUD	AIR Delhi, India
	16.82	100		R. Australia, Australia
17845	16.87	100		Deutsche Welle, Germany
	16.81	50		R. Liberty, Germany
	16.81	250		Schwarzenburg, Switzerland

kHz	m	kW	Call	Stations & Countries
17845	16.81	100		Sverdlovsk, USSR
	16.81	100		Cairo, Egypt
	16.81	20/240		R. Peking, China
	16.81	10/100	VUD	AIR Delhi, India
	16.81	100	WNYW	R. New York, USA
17850	16.81	100		Allouis, France
	16.81	15/120		R. Bucharest, Roumania
	16.81	240		Moscow, USSR
	16.81	250		Delano (VOA), USA
	16.81	250		Dixon (VOA/UN), USA
	16.81	10	ZYZ	R. Nacional, Brazil
17855	16.80	100		Vienna, Austria
	16.80	250		Woofferton (VOA), G.B.
	16.80	50		Tanger(VOA/UN),Morocco
	16.80	120/240		R. Peking, China
	16.80	100		R. Japan, Japan
	16.80	100		R. Habana, Cuba
17860	16.80	100	ORU3	Wavre, Belgium
	16.80	100		Kursk, USSR
	16.80	140		Bethany (UN), USA
17865	16.80	100		Warsaw, Poland
	16.80	10		R. Free Europe, Portugal
	16.80	100		Cairo, Egypt
	16.80	50		Damascus, Syria
17870	16.79	75/250		BBC London, Gt. Britain
	16.79	240		Riazan, USSR
	r16.79	250		Ejura, Ghana
	16.79	100		R. Australia, Australia
17875	16.79	30		Nicosia (CBC), Cyprus
	16.79	50		R. Liberty, Germany
	16.79	100		Deutsche Welle, Germany
	16.79	250		Greenville (VOA), USA
	16.79	10	PRL2	R. Min. Educação, Brazil
17880	16.78	100		Vienna, Austria
	16.78	100		R. Berlin Int, Germany
	16.78	50/100	CSA45	R. Nacional, Portugal
	16.78	240		Petropavlovsk, USSR
	16.78	50		Tula, USSR
	16.78	100		Vatican Radio
	16.78	100		Cairo, Egypt
	16.78	100		R. Japan, Japan
	16.78	7.5		BBC Tebrau, Malaysia
	16.78	100	HCJB	Va Voz de los Andes, Ec.
17885	16.78	100		BBC Limassol, Cyprus
	16.78	100		Vatican Radio
	16.78	100		Cairo, Egypt
	16.78	250		Dixon (VOA), USA
	16.78	100		R. Habana, Cuba
17890	16.77	3		R. Budapest, Hungary
	16.77	100		Komsomolsk, USSR
	16.77	20/240		R. Peking, China
	16.77	50	BED40	Taipei (BCC), Taiwan
	16.77	250		Bethany (VOA), USA
	16.77	100	HCJB	La Voz de los Andes, Ec.
17895	16.76	100		R. Liberty, Spain
	16.76	50/100	CSA66	R. Nacional, Portugal
	16.76	120		Tbilisi, USSR
	16.76	100		Dixon (VOA), USA
	16.76	250		R. Kuwait, Kuwait
17900	16.76	100		Moscow, USSR
				17910-21450kHz
17910	16.76	250		Ejura, Ghana
17920	16.74	50/100		Cairo, Egypt
17930	16.73	50/100		Cairo, Egypt
17935	16.73	10/50		Karachi, Pakistan
17945	16.72	50		Karachi, Pakistan
18080	16.59	100		BBC London, Gt. Britain
*20000	15.00	20	RWM	Moscow, USSR
*	15.00	2.5	WWV	Fort Collins, USA
†20225	14.83		NSS	Annapolis, USA
†20575	14.58		NPM	Honolulu, Hawaii
				21450-21750kHz (13 metre band)
21455	13.98	75/100		BBC London, Gt. Britain
	13.98	35		Tanger (VOA), Morocco
	19.98	100		Lagos (NBC), Nigeria
21460	13.98	100		Tula, USSR
	13.98	3		FEBC, Sychelles
	13.98	200		Delano (VOA/UN), USA
21465	13.98	100		R. Berlin Int, Germany
21470	13.97	250		BBC London, Gt. Britain
21475	13.97	50		R. Berlin Int, Germany
	13.97	50		Novosibirsk, USSR
21480	13.97	100		R. Nederland, Holland
	13.97	250		RSA, South Africa
	13.97	120/240		R. Peking, China
21485	13.96	100		Praha, Czechoslovakia
	13.96	100		Vatican Radio
	13.96	20/240		R. Peking, China
	13.96	250		Darwin, Australia
	13.96	250		Bethany (VOA), USA
21490	13.96	100		Tula, USSR
21495	13.96	100		R. Nederland, Holland
	13.96	50/100	CSA67	R. Nacional, Portugal
21500	13.95	1.5/50		R. Brazzaville, Congo
	13.95	100		Lagos (NBC), Nigeria
	13.95	250		Bethany (AFRTS), USA
	13.95	100		Delano (AFRTS), USA
21505	13.94	240		Erevan, USSR
21510	13.94	20	ORU5	Wavre, Belgium
	13.94	250		Woofferton (VOA), G.B.
	13.94	250		Greenville (VOA), USA
21515	13.94	100		Frunze, USSR
	13.94	2	DZI9	Call of the Orietn, Phil.
	13.94	140		Bethany (UN), USA
21520	13.94	250		Schwarzenburg,Switzerland
	13.94	250		Monrovia (VOA/UN), Lib.
21525	13.94	20/100	ORU	Wavre, Belgium
	13.94	50		R. Kuwait, Kuwait
	13.94	100	WNYW	R. New York, USA
21530	13.93	75/100		BBC London, Gt. Britain
	13.93	120		Armavir, USSR
21535	13.93	250		RSA, South Africa
	13.93	100		R. Japan, Japan
21540	13.93	100		R. Berlin Int, Germany
	13.93	250		Schwarzenburg,Switzerland
	13.93	100		Kursk, USSR
	13.93	50		R. Australia, Australia
21545	13.92	100		Tema, Ghana
	13.92	250		RSA, South Africa
21550	13.91	75/250		BBC London, Gt. Britain
21560	13.91	100		Deutsche Welle, Germany
	13.91	100		Munich (VOA), Germany
21560	13.91	60		R. Roma, Italy
	13.91	100		Vatican Radio
21565	13.91	100		Lvov, USSR
21570	13.91	100		R. Nederland, Holland
	13.91	50		Poro (VOA/UN), Phil.
	13.91	300		R. Nederland, Bonaire
21575	13.91	100		Moscow, USSR
21580	13.90	100		Allouis, France
	13.90	100		Deutsche Welle, Germany
	13.90	100	VUD	AIR Delhi, India
21585	13.90	100		Hörby, Sweden
	13.90	50/500		Greenville (VOA), USA
21590	13.90	20	ORU5	Wavre, Belgium
	13.90	75/100		BBC London, Gt. Britain
	13.90	10/250		R. Kuwait, Kuwait
	13.90	50		Karachi, Pakistan
	13.90	250		Greenville (VOA), USA
21595	13.89	50		R. Canada, Canada
21600	13.89	50		R. Berlin Int, Germany
	13.89	240		Leningrad, USSR
	13.89	120/240		R. Peking, China
21605	13.89	50		Kabul, Afghanistan
21610	13.88	100		BBC Limassol, Cyprus
	13.88	75/100		BBC London, Gt. Britain
	13.88	50		Dixon (VOA), USA
21615	13.88	100		Riga, USSR
	13.88	100		Cairo, Egypt
21620	13.87	100		France
21625	13.87	100		Frunze, USSR
21630	13.87	100		BBC London, Gt. Britain
	13.87	35/100		Poro (VOA), Phil.
	13.87	200		Dixon (VOA), USA
	13.87	300		R. Nederland, Bonaire
21635	13.87	240		Kalinin, USSR
21640	13.86	75/100		BBC London, Gt. Britain
	13.85	100		R. Japan, Japan
	13.85	50		Greenville (VOA), USA
21645	13.86	100		Allouis, France
	13.86	240		Armavir, USSR
21650	13.86	100		Deutsche Welle, Germany
	13.86	50		Greenville(VOA/UN),USA
21655	13.85	10	LKC	R. Norway, Norway
	13.86	100		Kazan, USSR
21660	13.85	100		BBC Limassol, Cyprus
	13.85	250		Monrovia (VOA), Liberia
21655	13.85	3		R. Budapest, Hungary
	13.85	50		R. Free Europe, Portugal
21670	13.84	100		Vienna, Austria
	13.84	10	LLP	R. Norway, Norway
	13.84	120		Krasnoyarsk, USSR
	13.84	250		Monrovia (VOA), Liberia
	13.84	50		Greenville (VOA/UN),USA
21675	13.84	100		Allouis, France
21680	13.83	250		BBC London, Gt. Britain
	13.83	100		Baku, USSR
	13.83	250		Dixon (VOA), USA
21685	13.83	3		R. Budapest, Hungary
	13.83	10		Dacca, Pakistan
21690	13.83	75/100		BBC London, Gt. Britain
	13.83	100		Hörby, Sweden

kHz	m	kW	Call	Stations & Countries
21690	13.83	100		Vatican Radio
	13.83	50		Tanger (VOA), Morocco
	13.83	50		Greenville (VOA), USA
	13.83	5		Grenada, Windward Isl.
21695	13.83	120		Serpukhov, USSR
	13.83	100		Riazan, USSR
	13.83	250		Monrovia (VOA), Liberia
	13.83	100		Dixon (VOA), USA
21700	13.83	100		Praha, Czechoslovakia
	13.83	50/100		R. Nacional, Portugal
21705	13.83			Deutsche Welle Germany
	13.83	200		Kazan, USSR
21710	13.83	100		BBC London, Gt. Britain
	13.83	100		Novosibirsk, USSR
21720	13.81	50		R. Free Europe, Portugal
	13.81	250		Ejura, Ghana
21715	13.82	100		Tallinn, USSR
21725	13.81	240		Armavir, USSR
21730	13.81	100	LLQ	R. Norway, Norway
21735	13.81	100		Praha, Czechoslovakia
	13.81	50/100		R. Nacional, Portugal
21740	13.80	75/100		BBC London, Gt. Britain
	13.80	100		Cairo, Egypt
21740	13.80	10		R. Australia, Australia
	13.80	150		Greenville (VOA), USA
21745	13.80	50		R. Free Europe, Portugal
	13.80	10/250		R. Kuwait, Kuwait
				21760-25590kHz
†21760	13.79		NPN	Guam
†22593	13.28		NPM	Honolulu, Hawaii
†22635	13.25		NPG	San Francisco, USA
†22845	13.13	10	VHP7	Belconnen, Australia
*25000	12.00	2.5	WWV	Fort Collins, USA
†25590	11.72		NSS	Annapolis, USA
				25600-26100kHz (11 metre band)
25620	11.71	250		Delano (VOA), USA
25650	11.70	100		BBC London, Gt. Britain
25670	11.67	100		BBC London, Gt. Britain
25720	11.66	100		BBC London, Gt. Britain
25730	11.66	100	LLL	R. Norway, Norway
25750	11.65	100		BBC London, Gt. Britain
25790	11.63	250		RSA, South Africa
25800	11.62	50		Greenville (VOA), USA
25880	11.59	35		Tanger (VOA), Morocco
25920	11.57	75/100		BBC London, Gt. Britain
25950	11.56	50		Greenville (VOA), USA
25990	11.54	250		Dixon (VOA), USA
26040	11.52	50		Greenville (VOA), USA
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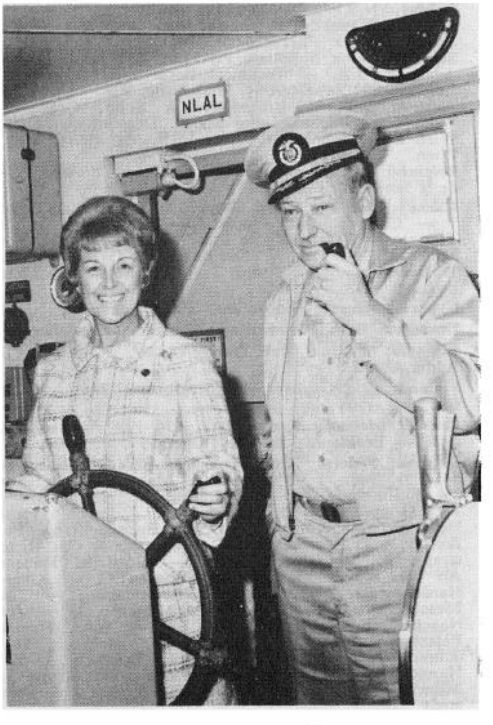
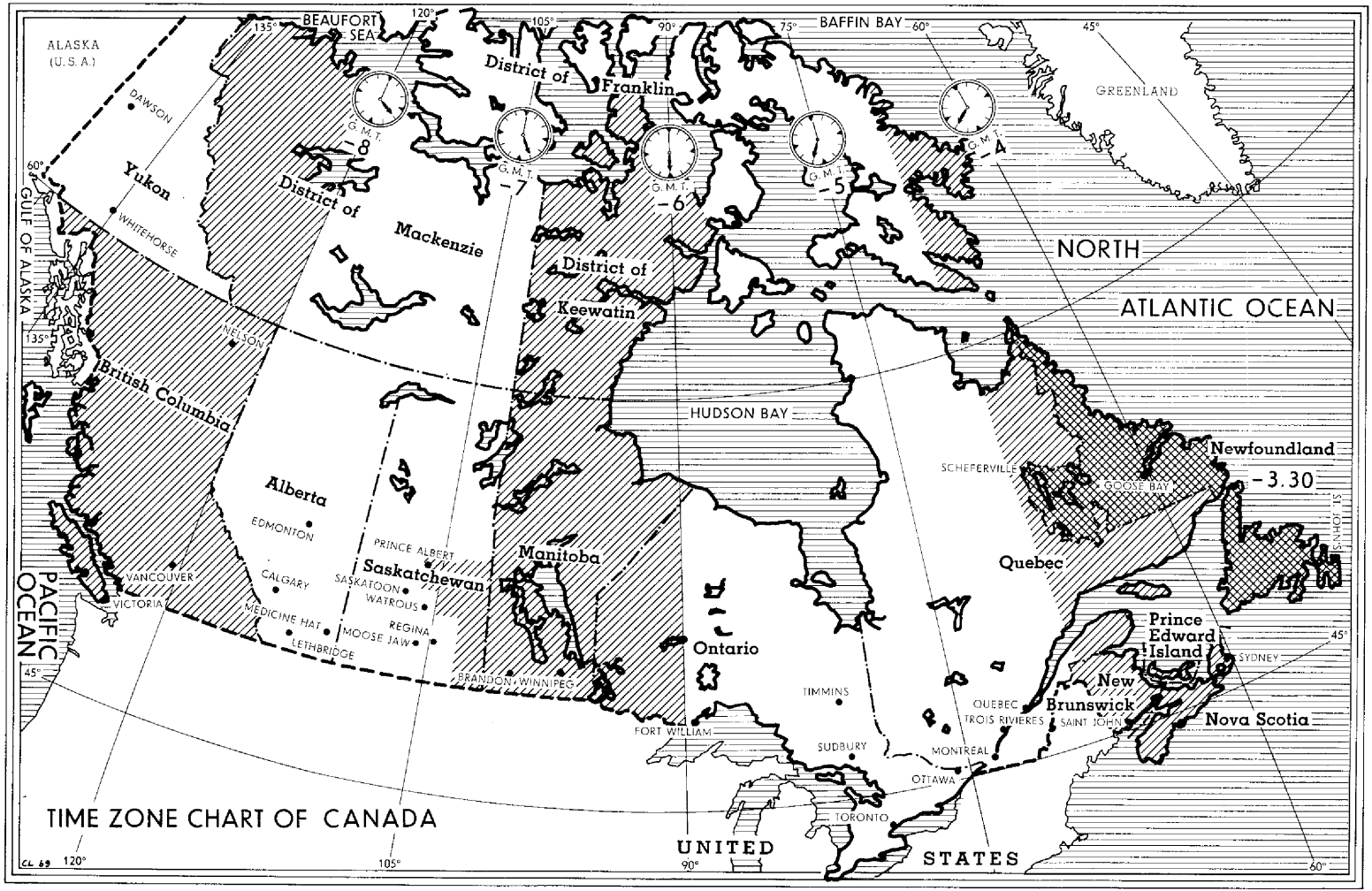


Upper left: Keith Glover, R. Australia's popular "mailman" answering listeners' letters — Upper right: Mary Adams, compere of "Calling Antarctica", discusses a programme item with the Ag. Dir. of the Australian Antarctic Division — Bottom left: Marie Baggiere, Jean Roche and Yves Monin, Prgr. Officers in R. Australia's French section — Bottom right: Mary Collins, compere of R. Australia's prgr. to ships at sea "8 Bells", on the bridge of USNS "Eltanin" on a visit to Sydney.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Prince Edward Island
New Brunswick
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G.M.T. -7
G.M.T. -6
G.M.T. -5
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Ampex International, Reading England 48
APPEL Apparecchiature Elettroniche, Torino, Italy 214
Australian Broadcasting Commission, Melbourne, Australia 179

Billboard, USA 43
British Broadcasting Corp, London, England 83

Canadian Broadcasting Corp, Montreal, Canada ... 195
Church of Lord Jesus Christ, USA 21
Compagnie Française Thomson-Houston, Paris VIII, France ..... Back cover
Cole, Alexander, Ilford, England 141
Continental Electronics Mfg. Co, USA 212, 213

Deutsche Welle, Cologne, German Fed. Rep. ... 71
Deutscher Demokratischer Rundfunk, Berlin, German Dem. Rep. 79
Deutschlandfunk, Cologne, German Fed. Rep. ... 73
Drake Company, R.L, Miamisburg, Ohio, USA 3rd cover page

Elektroimpex, Budapest, Hungary 96
E.M.I. Electronics Ltd, Hayes, Middlesex, England 283
European Broadcasting Union (EBU), Belgium/Switzerland 85

Gilfer Associates, Box 239, Park Ridge, N.J. USA 203
Grundig Werke G.m.b.H, 851 Fürth, Germany 121, 189

Hallicrafters, USA 16
Hammarlund Mfg. Co, Red Bank, N.J, U.S.A. ... 217
Heath Company, Benton Harbor, Mich 49022, USA 191
Henry Radio, Butler 1, Mo. 64730, USA 45
Hokushin Electric Works Ltd, Japan 190

Imhof, Alfred, London, England 180
International Radio and Television Organization, (OIRT), Prague, Czechoslovakia 222

KOVO, Prague, Czechoslovakia 28
The Marconi Company Limited, Chelmsford, England 279

MIFED, Milano, Italy 34

Neumann, Georg, Berlin S.W. 61 German Fed. Rep. 1
Neve & Co, Rupert, Cambridge, England 35
New Zealand Broadcasting Corp, Wellington, New Zealand 187
Nigerian Broadcasting Corporation, Lagos, Nigeria 8, 288
Nippon Electric Company Ltd, Tokyo, Japan ..... 2nd cover page
Nihon Koden Kogyo, Tokyo, Japan 161

Philips, N.V, Eindhoven, Holland ... 12, 13, 17, 60, 61
Polskie Radio i Televizja, Warsaw, Poland 14
PYE International Ltd, London, England 36

Radio Corporation of America, USA ... 9, 143, 156, 157
Radio Denmark, Copenhagen V, Denmark 67
Radio Iran, Tehran, Iran 159
Radio Malaysia, Kuala Lumpur, Malaysia 166
Radio Moscow, Moscow, USSR 4, 115
Radionica S.p.A, Rome, Italy 145
Radio New York Worldwide, New York, USA 199, 205, 210, 251
Radio Station Peace and Progress, Moscow, USSR 2
Radio Portugal, Lisbon, Portugal 98
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Radio Voice of the Gospel, Addis Ababa, Ethiopia 129
Record Source, International, USA 215

Shortwave Listeners Guide, USA 204
SME, Steyning, England 27
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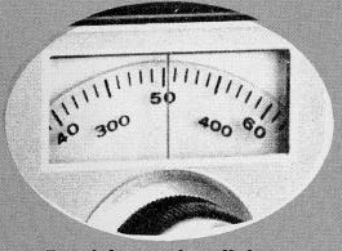

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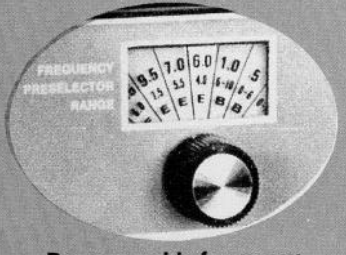

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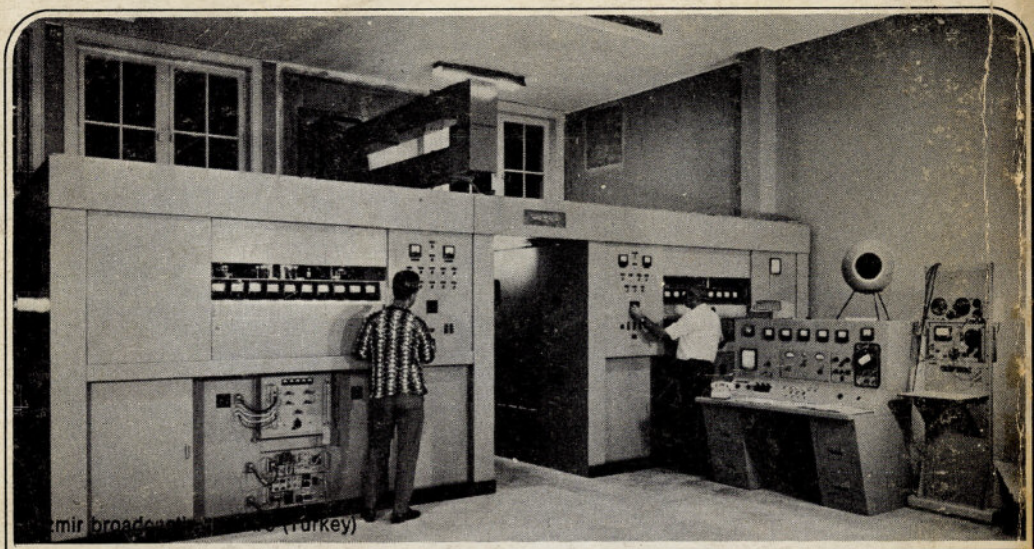
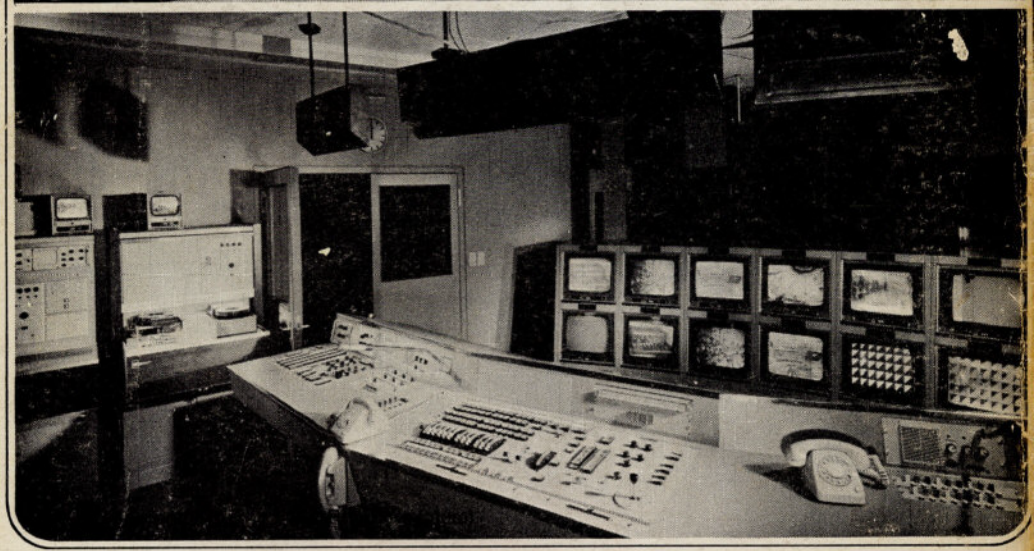
FEATURES: ● **Linear dial** with 1 KHz readout ● **4-pole crystal** filter in first IF ● **4-pole LC filter** in second IF ● **Three bandwidths:** 0.4 KHz, 2.4 KHz, and 4.8 KHz for: CW, SSB, AM ● **AVC time constants** opimized for each mode ● **Superior** cross-modulation and overload performance ● **Power:** 120 VAC, 220 VAC, and 12 VDC ● **Crystals supplied** for LW, standard broadcast and seven shortwave broadcast bands ● **Built-in speaker** ● **Notch Filter.**

ACCESSORIES: 100 Khz calibrator, noise blanker, transceive adapter (T-4XB), DC power cord, loop antenna, crystals for other ranges.

For more information write

R. L. DRAKE COMPANY
Dept. WRO, 540 Richard St., Miamisburg, Ohio 45342





DESIGN ENGINEERING DEVELOPMENT CONSTRUCTION AND INSTALLATION OF ANY BROADCASTING AND TELEVISION CENTRES

THOMSON-CSF

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